

Personal Systems Reference Lenovo® ThinkCentre Desktops

March 2010 - Version 373



Lenovo ThinkCentre M90/M90p (Eco Ultra Small, Small, Tower Form Factors)

ThinkCentre.



Kensington® MicroSaver® Cable Lock 73P2582 Kensington Twin Head Cable Lock 45K1620



1GB PC2-6400 NP DDR2 UDIMM 41U2977 2GB PC2-6400 NP DDR2 UDIMM 41U2978 1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987 2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988 (UDIMM for SFF, Tower only; SODIMM for Eco USFF only)



ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636



Lenovo® USB-to-DVI Monitor Adapter 45K5296



Ultraslim Wireless Keyboard and Mouse 57Y4700



Lenovo Laser Mouse (USB) 41U3074





Lenovo ThinkCentre M58e Small and Lenovo ThinkCentre M58e Tower





Lenovo ThinkCentre M58e Small

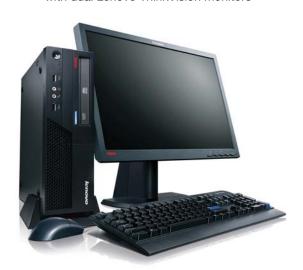




Lenovo ThinkCentre M58e Tower



Lenovo ThinkCentre M58e Small with dual Lenovo ThinkVision monitors



Lenovo ThinkCentre M58e Small with Lenovo ThinkVision monitor



Lenovo ThinkCentre M58e Tower with Lenovo ThinkVision monitor

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Preload	Global Educ	Avail date
M58e M58e	7259-B1U 7259-B2U	2x3 2x3	Pentium E6300 Pentium E6300	2.80 2.80	2MB 2MB	2	1GB 2GB	250GB ² 250GB	DVD DVD±RW	GMA GMA	XP Pro XP Pro	None None	Nov 09 Nov 09
M58e	7259-B3U	2x3	Pentium E6300	2.80	2MB	2	3GB	500GB	DVD±RW	GMA	XP Pro	None	Nov 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
 These models have a 1-year limited warranty¹

Positioning Processor Implementation	Mainstream enterprise sta Intel® Pentium® Process 1066MHz system bus, and Processor in LGA775 soci	or É6300 with dual-core , d 2MB L2 cache	Small	optical disk (in rear)
Memory	1GB, 2GB, or 3GB std, 4 non-parity, dual-channel c <i>Italics:</i> standard mer	GB max ⁸ , PC2-6400 800MHz DDR2 , apable, two 240-pin DIMM sockets; nory in both sockets; no sockets avail; nory in one socket; one socket available	Bay ② 3.5", Bay ③ 3.5",	1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express x16 (35w max)
Graphics	integrated graphics in G41 (up to 512MB [1GB mode one analog VGA DB-15 co	ls], 1GB [2GB or 3GB models]),	Slot 2: Low P Business blaction 12.5" W X 1 317mm W > 16.5 lb (7.5)	rofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H kg) in maximum configuration
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port	Serial ATA, SATA 3.0Gb/s, Some: DVD-ROM DL SAT Some: Super Multi-Burne	.0Gb/s 7200 rpm, vibration dampening integrated in ICH7 A 1.5Gb/s 16-48X Max ⁴ Drive r DL DVD±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	Toolless disToolless adaToolless sys	ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention r stand for vertical orientation
Diskette drive Media reader	None None			Security Security slot (in year for attachment of
Chipset	Intel G41 Express Chips	et (PCI Express® x16), '] (SATA 3.0Gb/s, PCI Express x1, PCI 2.0	3, USB,	Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) optional cable also locks the cover by deactivating the cover release buttons Power-on password
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Four USB 2.0, serial (9-pin ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lin High Definition (HD) Audio One internal speaker for b None	ne-out (stereo, 3.5mm), microphone (stereo, Realtek® ALC662 codec	ıse (PS/2),	Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Keyboard Mouse Power supply	Preferred Pro USB Keybo	ard (USB connector), 104-key, black, Lend B connector), 400 dpi, black, Lenovo logo		Supports ThinkVantage® technologies GREENGUARD® certified
,	-			RoHS-compliant
through downg Windows 7 Pr Preloaded appl Rescue and R Client Security ThinkVantage ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Windows Live Microsoft® Offf Roxio® Creato (DVD±RW) Roxio MyDVD	Professional preinstalled grade rights in Genuine ofessional ications ⁵ (only some listed) ecovery™ / r Solution™ Productivity Center System Update Power Manager Scan® Plus us definitions) m Toolbox er® Toolbar ice 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) DVD-ROM DL SATA 1.5Gb/s 16-48X Ma Super Multi-Burner DL DVD±RW SATA DisplayPort™ to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® Quadro® 256MB FX 370 LP NVIDIA Quadro 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessorie other accessories at lenovo.com/accessories	Orive 41N5620 45J7915 P) 43R1985 GA) 45K1636 55Y9275 43R1765 esguide	Limited Warranty¹ 2 1-year parts and labor 2 International Warranty Service³ 2 Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) 3 Onsite service upgrade options (in eligible locations):7 1 -year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188) 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) ThinkPlus part number 41C9191) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e	7259-D3U	2x3	Celeron E3200	2.40	1MB	2	1GB	250GB ²	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7259-D2U	2x3	Pentium E5400	2.70	2MB	2	2GB	250GB	DVD±RW	GMA	Pro 32	None	Jan 10
M58e	7259-D1U	2x3	Pentium E5400	2.70	2MB	2	3GB	320GB	$DVD \pm RW$	GMA	Pro 32	None	Jan 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
 These models have a 1-year limited warranty¹

Positioning Processor Implementation	Mainstream enterprise state Intel® Celeron® Processo 800MHz system bus, and Intel Pentium® Processo 800MHz system bus, and Processor in LGA775 sock	or E3200 with dual-coré , 1MB L2 cache or r E5400 with dual-core , 2MB L2 cache	Bay ② 3.5",	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk
Memory	non-parity, dual-channel ca Italics: standard men	GB max ⁸ , PC2-6400 800MHz DDR2 , apable, two 240-pin DIMM sockets; nory in both sockets; no sockets avail; nory in one socket; one socket available	Slot 1: Low P Slot 2: Low P	.5" hīgh, access, open (reader) rofile, PCI Express x16 (35w max) rofile, 32-bit PCI 2.3 ack color; metal case
Graphics	integrated graphics in G41 (up to 253MB [1GB model 1277MB [3GB models]), one analog VGA DB-15 co	s], 765MB [2GB models], or	• 12.5" W X 1 • 317mm W > • 16.5 lb (7.5 • Toolless cov • Toolless dis • Toolless ada	4.0" D X 3.9" H (355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal apter retention
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	.0Gb/s 7200 rpm, vibration dampening integrated in ICH7 D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors on	System floo	stemboard retention r stand for vertical orientation Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by
Chipset	Intel G41 Express Chipse I/O Controller Hub 7 [ICH7 LPC bus)	et (PCI Express® x16), [] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3	3, USB,	deactivating the cover release buttons Power-on password Administrator password Hard disk password
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT	Four USB 2.0, serial (9-pir ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lir High Definition (HD) Audio One internal speaker for b None	ne-out (stereo, 3.5mm), microphone (stere , Realtek® ALC662 codec	ıse (PS/2),	Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Modem Security chip	None None			Supports ThinkVantage® technologies
Keyboard Mouse Power supply	Preferred Pro USB Keyboa Optical Wheel Mouse (USI 280 watts with variable spe	ard (USB connector), 104-key, black, Lenc B connector), 400 dpi, black, Lenovo logo sed fan, autosensing	ovo® logo	GREENGUARD® certified RoHS-compliant
Preloaded oper - Genuine Wind Preloaded appl - Rescue and R - Password Mar - ThinkVantage - ThinkVantage - ThinkVantage - Lenovo Online - Norton™ Interi (30 days of vir - Adobe® Reade - Adobe Flash® - Skype™ for W - Microsoft® Offi	ating system ²⁰ ows® 7 Professional 32 ications⁵ (only some listed) ecovery™ nager System Update Power Manager Toolbox Data Backup net Security 2009 us definitions) er® Player indows ice 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM	45J7915 43R1985 6A) 45K1636 55Y9275 43R1765 esguide	Limited Warranty¹ 1-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):¹ 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9198) 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9198) ThinkPlus part number 41C9191) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

	Slot x		L2		SATA	SATA		Chassis		Global	Avail
Name Type-model	bay Processor	GHz ca	ache Cores		disk	optical		intr switch		Educ	date
M58e 7269-E5U M58e 7269-D5U M58e 7269-D6U M58e 7269-D7U M58e 7269-D8U M58e 7269-F1U	2x3 Pentium E5400 2x3 Pentium E6300 2x3 Pentium E6300 2x3 Core 2 Duo E7500 2x3 Core 2 Quad Q940 2x3 Core 2 Quad Q950	2.80 2 2.80 2 2.93 3 0 2.66 6	MB 2 MB 2 MB 2 MB 2 MB 4 MB 4	1GB 1GB 2GB 3GB 3GB 3GB	250GB 250GB 250GB 320GB 500GB	DVD DVD±RW DVD±RW DVD±RW DVD±RW DVD±RW	GMA GMA	Switch Switch	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	None None None None	Nov 09 Nov 09 Nov 09
	 These small and mediu These models have a 3- 			els are pai	t of the l	JS TopSeller [⊤]	M Program	n			
Positioning Processor	Mainstream enterprise state Intel® Pentium® Processom 800MHz system bus, and Intel Pentium Processor 1066MHz system bus, and Intel Core™ 2 Duo Proce 1066MHz system bus, and Intel Core 2 Quad Proces 1333MHz system bus, and 1150 Processor 1333MHz system bus, and 1150 Processor 1333MHz system bus, and 1150 Processor 1350 Processor 1350 Processor 1350 Processor 1550	or E5400 with 2MB L2 cach E6300 with 6 2MB L2 cach ssor E7500 13MB L2 cach ssor Q9400 6 6MB L2 cach 16MB L2 cach 16MB L2 cach 16MB L2 cach	h dual-cord ne or dual-core, che or with dual-c che or or Q9500 w	e, eore,	core,	Small Bay ① 5.25" Bay ② 3.5", Bay ③ 3.5", Slot 1: Low F	1" high, .5" high, Profile, PC	h, access, no acces , access, CI Express	std open x16 (35w	sk (reader)
Implementation Memory Graphics	Processor in LGA775 soci 1GB, 2GB, or 3GB std, 40 non-parity, dual-channel control in the standard mer Non-italics: standard mer Intel Graphics Media Actintegrated graphics in G41 (up to 512MB [1GB model one analog VGA DB-15 control in the standard mer	BB max ⁸ , PC apable, two 2 nory in both s nory in one s celerator X4 , uses main s], 1GB [2GE	240-pin DIM sockets; no socket; one 500 (GMA memory B or 3GB m	M sockets a socket ava	; vail;	Slot 2: Low F Business b 12.5" W X 317mm W 16.5 lb (7.5 Toolless die Toolless die Toolless sy System floe	lack color 14.0" D X X 355mm 5 kg) in ma over flips u sk, optica lapter rete estemboar	r; metal cas 3.9" H n D X 99mr aximum co up and tilts I drive rem ention rd retentior	se n H onfiguratio backward oval	d on rea	ır hinges
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	supports dual independen 250GB, 320GB, or 500GE vibration dampening moun Serial ATA, SATA 3.0Gb/s, Some: DVD-ROM DL SAT Some: Super Multi-Burne Two SATA cables (each 1- None None None	, SATA 3.0G s integrated in A 1.5Gb/s 16 DL DVD±R\	b/s 7200 rp i ICH7 6-48X Max ⁴ W SATA 1.5	om, Drive 5Gb/s Drive	e		optio - opi de: • Powe • Adm • Hard	surity slot (in nal Kensin tional cable activating teron passin inistrator plassing teron passing sequence	gton® Mic e also loc he cover word assword word	croSave	r® cable) over by
Chipset Front ports Rear ports	Intel G41 Express Chips I/O Controller Hub 7 [ICH7 LPC bus) Two USB 2.0, microphone Four USB 2.0, serial (9-pir] (SATA 3.00 (stereo, 3.5r	Bb/s, PCÍ E mm), headr	hone (ste	eo, 3.5n	nm)	Boot Seria Para USB	without ke al port I/O o llel port I/O port disab e: Chassis	yboard, r control control lement		diskette
Rear audio ports Audio Speaker IEEE 1394 Ethernet	ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lir High Definition (HD) Audic One internal speaker for b None Gigabit ethernet on planar	(VGA DB-15) ie-out (stered , Realtek® Al usiness audi) o, 3.5mm), LC662 cod o	microphor ec	e (stere	, ,	GREE	rts ThinkVa		echnolo	gies
Intel AMT Modem	None None						HOI 13-	compliant	ted Warra	antv¹	
Security chip Keyboard Mouse Power supply	None Preferred Pro USB Keyboo Optical Wheel Mouse (US 280 watts with variable spe	3 connector)	, 400 dpi, b			o® logo	□ Inte □ Cus □ Cus	ear parts a ernational \ stomer Rep ts only (wi	nd labor Narranty olaceable	Service Unit (C	RU)
through downg Windows 7 Pro Preloaded applie Rescue and Re Client Security ThinkVantage I ThinkVantage I McAfee® Viruss (30 days of viru. Lenovo System Adobe® Reade Windows Live™ Microsoft® Offic Roxio® Creator (DVD±RW) Roxio MyDVD®	Professional preinstalled rade rights in Genuine offessional cations⁵ (only some listed) ecovery™ Solution™ Productivity Center System Update Power Manager Scan® Plus is definitions) in Toolbox r® Toolbar the 2007 Trial (60-day) Business Edition	Accessories 1GB PC2-6 2GB PC2-6 250GB SAT 500GB SAT 1TB SATA 3 DVD-ROM I Super Multi- DisplayPort ADD2 DVI-I ATI™ Radec NVIDIA® Qu NVIDIA Qu More acces Acc Guide i Other acces	400 DDR2 400 DDR2 A 3.0Gb/s A 3.0Gb/s B.0Gb/s Dis DL SATA 1. -Burner DL ™ to Single D Monitor C D Monitor C Jadro® 256Ml sories on C n pdf lenov	UDIMM Disk (7200 Disk (7200 Disk (7200 rp 5Gb/s 16- DVD±RW -link DVI-I Connection 70 256MB MB FX 377 3 NVS 290 D-M58E sh /o.com/ac	ripm) m) 48X Max SATA Di Cable (HDCP) (DP, VG) LP eet cessorie	rive 41N5620 45J7915 43R1985 A) 45K1636 55Y9275 43R1765 sguide	Monex	selected p n - Fri cove r Fri cove tt business site service eligible loc -year LOR ThinkPlus p to services twarranty vices avail hour x 7 da ing the wa 800-426-73	erage exc day resp e upgrade eations): ⁷ 9x5, 4 ho part numbe 9x5, Next art numbe 9x5, 4 ho art numbe 24x7, 4 h art numbe vices at inkplus/w mainten able ay ¹⁴ toll-fr rranty pe	luding I luding I loonse ti e option ur resp ber 41C9 t Busine er 41C9 ur resp our resp our resp er 41C9 arranty ance	onse 9192) ponse 193) poss Day 194) ponse 195) ponse 196)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e M58e M58e M58e M58e	7269-E6U 7269-E7U 7269-E8U 7269-E9U 7269-F2U	2x3 2x3 2x3 2x3 2x3	Pentium E5400 Pentium E5400 Core 2 Duo E7500 Core 2 Quad Q9400 Core 2 Quad Q9500	2.70 2.70 2.93 2.66 2.83	2MB 2MB 3MB 6MB 6MB	2 2 2 4 4	1GB 2GB 3GB 3GB 3GB	250GB ² 250GB 320GB 500GB 500GB	DVD DVD±RW DVD±RW DVD±RW DVD±RW	GMA GMA GMA GMA GMA	Pro 32 Pro 32 Pro 32 Pro 32 Pro 32	None None None None	Jan 10 Jan 10 Jan 10 Jan 10 Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

Positioning Processor	Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9400 or Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	Bay ② 3.5", Bay ③ 3.5",	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk 5." high, access, open (reader)
Memory	non-parity, dual-channel capable, two 240-pin DIMM sockets; ltalics: standard memory in both sockets; no sockets avail; Non-italics: standard memory in one socket; one socket available	Blot 2: Low Pi Business bla 12.5" W X 1	rofile, PCI Express x16 (35w max) rofile, 32-bit PCI 2.3 acle, color; metal case 4.0" D X 3.9" H (355mm D X 99mm H
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 253MB [1GB models], 765MB [2GB models], or 1277MB [3GB models]), one analog VGA DB-15 connector, DirectX® 10,	16.5 lb (7.5 Toolless cov Toolless disl Toolless ada Toolless sys	kg) in maximum configuration rer flips up and tilts backward on rear hinges k, optical drive removal apter retention temboard retention r stand for vertical orientation
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB, 320GB, or 500GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors on pla None None None	nar	Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • optional cable also locks the cover by deactivating the cover release buttons • Power-on password • Administrator password • Hard disk password
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, ULPC bus)		Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mn Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse ethernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, High Definition (HD) Audio, Realtek® ALC662 codec	(PS/2),	USB port disablement
Speaker IEEE 1394	One internal speaker for business audio None		Supports ThinkVantage® technologies
Ethernet Intel AMT Modem Security chip	Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None None		GREENGUARD® certified RoHS-compliant
Keyboard Mouse Power supply Preloaded oper - Genuine Wind	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing **Tating system** Accessories* GB PC2-6400 DDR2 UDIMM 2GB PC2-	* logo 41U2977 41U2978 41N2015	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)

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- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Lenovo Online Data Backup
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)

Preloaded applications⁵ (only some listed)

■ Rescue and Recovery™

■ Password Manager

This latest System Lindots

This latest System Lindots

Password Manager

This latest System Lindots 41N3015 43R1990 45J7918 DVD-ROM DL SATA 1.5Gb/s 16-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort™ to Single-link DVI-D Cable 45J7915

ADD2 DVI-D Monitor Connection (HDCP) ATITM RadeonTM HD 3470 256MB (DP, VGA) NVIDIA® Quadro® 256MB FX 370 LP

NVIDIA Quadro 256MB NVS 290 More accessories on O-M58E sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196) ThinkPlus services at
- lenovo.com/thinkplus/warranty

43R1985

45K1636

55Y9275

43R1765

- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

Naı	ne Type-mod	Slot x el bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date
			Pentium E2220	2.40	1MB	2	2GB	160GB ²	DVD±RW		Business32			Apr 09
			Core 2 Duo E7300			2	2GB	160GB	DVD±RW				None	Apr 09
M5	Be 7279-A8	J 2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB	DVD±RW	GMA	Business32	Basic	None	Apr 09

• These models have a 1-year limited warranty

Positioning Processor	800MHz system bus, and Intel Core™ 2 Duo Proce 1066MHz system bus, an Intel Core 2 Duo Proces Virtualization Technology, and 6MB L2 cache	or E2220 with dual-core, 1MB L2 cache or ssor E7300 with dual-core, d 3MB L2 cache or sor E8400 with dual-core, TXT, 1333MHz system bus,	Bay ② 3.5", Bay ③ 3.5",	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express x16 (35w max)				
Implementation Memory	2GB std, 4GB max ⁸ , PC2 non-parity, dual-channel of	capable, two 240-pin DIMM sockets;	Slot 2: Low Pi Business black	ack color; metal case 4.0" D X 3.9" H				
Graphics	Intel Graphics Media Ac integrated graphics in G4 one analog VGA DB-15 co	mory in one socket; one socket available celerator X4500 (GMA X4500), 1, uses main memory (up to 765MB), connector, DirectX® 10, tt display with optional ADD2 adapter	• 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on re • Toolless disk, optical drive removal • Toolless adapter retention • Toolless systemboard retention					
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader Chipset Front ports Rear ports Rear audio ports Audio Speaker	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV Two SATA cables (each 1 None None None Intel G41 Express Chips I/O Controller Hub 7 [ICH LPC bus) Two USB 2.0, microphone Four USB 2.0, serial (9-pi ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), li	PD±RW SATA 1.5Gb/s Drive -drop to device), two SATA connectors set (PCI Express® x16), 7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 e (stereo, 3.5mm), headphone (stereo, 3.5 n), parallel (25-pin), keyboard (PS/2), mou (VGA DB-15) ne-out (stereo, 3.5mm), microphone (stereo, Realtek® ALC662 codec	3, USB, mm) ise (PS/2),	Security Security Security Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) optional cable also locks the cover by deactivating the cover release buttons Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement				
IEEE 1394 Ethernet Intel AMT Modem	None .	r, Marvell® 88E8057, Wake on LAN®		Supports ThinkVantage® technologies				
Keyboard Mouse Power supply	Preferred Pro USB Keybo	ard (USB connector), 104-key, black, Lend BB connector), 400 dpi, black, Lenovo logo leed fan, autosensing		GREENGUARD® certified RoHS-compliant				
Preloaded oper - Genuine Wind Preloaded appl - Rescue and R - Client Security - ThinkVantage - ThinkVantage - McAfee® Virus (30 days of vir - Lenovo Syster - Adobe® Reade - Windows Live - Microsoft® Offi	ating system ²⁰ ows® Vista® Business 32 ications⁵ lecovery™ / Solution™ Productivity Center System Update Power Manager Scan® Plus us definitions) m Toolbox er® Toolbar ice 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 160GB SATA 3.0Gb/s Disk (7200 rpm) 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA IDISplayPort to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VCNVIDIA® Quadro® 256MB FX 370 LPNVIDIA® Quadro 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessories	45J7915 43R1985 6A) 45K1636 55Y9275 43R1765 esguide	Limited Warranty¹ □ 1-year parts and labor □ International Warranty Service³ □ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) □ Onsite service upgrade options (in eligible locations):⁻ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9198) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) □ ThinkPlus services at lenovo.com/thinkplus/warranty □ Post warranty maintenance services available □ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378				

Name Type-model	Slot x bay Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Floor stand	Preload	Global Educ	Avail date
 M58e 7303-F9U M58e 7303-G8U M58e 7303-C8U M58e 7303-C9U M58e 7303-D1U M58e 7303-D2U M58e 7303-D5U M58e 7303-G7U M58e 7303-G9U M58e 7303-G7U M58e 7303-D4U M58e 7303-D6U M58e 7303-D4U M58e 7303-G9U 	2x3 Pentium E5300 2x3 Pentium E5300 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7500 2x3 Core 2 Duo E8400 2x3 Core 2 Duo E8500 2x3 Core 2 Duo E8500 2x3 Core 2 Duo E8500		2MB 2MB 2MB 2MB 3MB 3MB 3MB 3MB 6MB 6MB 6MB 6MB 6MB 4MB	222222224 nty	1GB 1GB 1GB 2GB 1GB 2GB 1GB 2GB 1GB 2GB 1GB 2GB 2GB	160GB 160GB 160GB 250GB 160GB 160GB 160GB 160GB 160GB 160GB 250GB 250GB	DVD DVD±RW DVD DVD DVD±RW DVD DVD±RW DVD DVD±RW	GMA GMA GMA GMA GMA GMA GMA GMA GMA GMA	Stand Stand	XP Pro XP Pro	Educ	Apr 09 Apr 09
Positioning Processor	Mainstream enterprise sta Intel® Pentium® Processo 800MHz system bus, and intel Core™ 2 Duo Process 1066MHz system bus, and Intel Core 2 Duo Process 1333MHz system bus, and Intel Core 2 Quad Process 1333MHz system bus, and Processor in FC-LGA6 or	or E5200 of 2MB L2 cassor E740 of 3MB L2 castor E8400 of 6MB L2 castor Q820 of 4MB L2 ca	or E5300 ache or 00 or E7 cache or or E850 cache or 00 with q cache) with 500 with 0 with uad-c	ith dual-control	ore, re,	Small Bay ① 5.25", Bay ② 3.5", Bay ③ 3.5", Slot 1: Low P Slot 2: Low P	1" high, .5" high, rofile, PC	, access, no access, access,	std opens x16 (35w	sk (reader)	
Memory Graphics	1GB or 2GB std, 4GB manon-parity, dual-channel cannon-parity, dual-channel cannon-italics: standard menus Intel Graphics Media Accintegrated graphics in G41 (up to 512MB [1GB model one analog VGA DB-15 co supports dual independent	x8, PC2-64 apable, two nory in one celerator X , uses ma s], 1GB [2 nnector, D	400 800N o 240-pii e socket X4500 (C in memo GB mod DirectX®	MHz D n DIM ; one s GMA 2 ory lels]), 10,	DR2, M sockets socket ava (4500),	s; ailable	 Business bl 12.5" W X 1 317mm W) 16.5 lb (7.5 Toolless co Toolless ad Toolless ad Toolless sys Some: syst 	ack color; 4.0" D X (355mm kg) in ma ver flips u k, optical apter rete stemboard	metal ca 3.9" H D X 99m ximum co and tilta drive rer ntion d retention	ase nm H onfigurations s backwar noval	d on rea	Ü
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader Chipset	160GB or 250GB, SATA 3 Serial ATA, SATA 3.0Gb/s, Some: DVD-ROM DL SAT Some: Super Multi-Burne Two SATA cables (each 1-t None None None Intel G41 Express Chipse	integrated A 1.5Gb/s r DL DVDd drop to de	d in ICH7 s 16-48X ±RW SA vice), tw	7 Max ⁴ TA 1.5 o SAT	Drive Gb/s Driv A connec	re tors		Securioption option option dea Powe Admir Hard	rity slot (i nal Kensi onal cab ctivating r-on pass nistrator disk pass	Security n rear for ngton® Mid le also loc the cover sword password	attachme croSave	ent of ® cable) over by
Front ports Rear ports Rear audio ports Audio	I/O Controller Hub 7 [ICH7 LPC bus) Two USB 2.0, microphone Four USB 2.0, serial (9-pir ethernet (RJ-45), monitor (Line-in (stereo, 3.5mm), lir High Definition (HD) Audio	(stereo, 3), parallel VGA DB- le-out (ste , Realtek®	.5mm), h (25-pin) 15) ereo, 3.5r	neadp , keyb mm), r	hone (ste oard (PS/ microphor	reo, 3.5r /2), mous	nm) se (PS/2),	Boot Seria Parall USB	without k port I/O el port I/ port disa	eyboard, i control O control		
Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip Keyboard	One internal speaker for bit None Gigabit ethernet on planar, None None None Preferred Pro USB Keyboa	Marvell®	88E805				wo® logo	RoHS-o	Lim ar parts	ited Warra and labor Warranty	anty¹ Service ^s	
Mouse Power supply Preloaded opera - Genuine Windo (preinstalled vi Windows Vista Preloaded appli Some: Educat - VitalSource L - Adobe® Elem - Photoshop - Premiere E - Rescue and R - Client Security - Microsoft® Offi - Roxio® Creator (DVD±RW) - Roxio MyDVD®	Optical Wheel Mouse (USI 280 watts with variable spectating system ²⁰ ows XP Professional a downgrade rights in Business) cations ⁵ (only some listed) tion software ibrary School Edition sents Elements 7 lements 7 ecovery TM Solution TM oce 2007 Trial (60-day)	Accesso 1GB PC2 2GB PC2 500GB S 1TB SATA	or), 400 utosensii vies 2-6400 D 2-6400 D ATA 3.00 ATA 3.00 J ATA	dpi, bl ng DDR2 l DDR2 l Gb/s D S Disl er DL ngle-lin itor C ID 347 256ME s on O	UDIMM UDIMM Disk (7200 rp DVD±RW nk DVI-D onnectior 70 256MB 8 NVS 290 -M58E sh o.com/ac	ovo logo o rpm) sATA D Cable (HDCP (DP, VG) LP) neet	41U2977 41U2978 43R1990 45J7918 rive 41N5620 45J7915) 43R1985 (A) 45K1636 55Y9275 43R1765	part for s Mon next Cons (in e 3- (T 4- (T Post leno Post serv 24 h duri	s only (welected - Fri cov.	lay ¹⁴ toll-fr arranty pe	d onsite : m - 5 pm eluding h ponse tir e option: our resp hber 41C nour resp er 41C91 our resp er 41C91 er 41C91 er 41C91 er 41C91 er 41C91 er 41C91	service l, colidays, ne) s onse 93) onse 93) onse 95) oonse 96)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Preload	Global Educ	Avail date
M586 M586 ≥ M58 6 M586	7303-R2U 7303-R3U	2x3 2x3 2x3 2x3	Pentium E6300 Pentium E6300 Pentium E6300 Core 2 Quad Q8400	2.80 2.80 2.80 2.66	2MB 2MB 2MB 4MB	2 2 2 4	1GB 2GB 2GB 2GB	250GB ² 250GB 250GB 250GB	DVD DVD±RW DVD±RW DVD±RW	GMA GMA GMA GMA	XP Pro XP Pro XP Pro XP Pro	Educ	Oct 09 Oct 09 Oct 09 Oct 09

These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core, Virtualization Technology, 1333MHz system bus, and 4MB L2 cache Processor in LGA775 socket	Bay ② 3.5", Bay ③ 3.5",	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader)
Memory	1GB or 2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; Non-italics: standard memory in one socket; one socket available	Slot 2: Low P Business black	rofile, PCI Express x16 (35w max) rofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter	• 317mm W > • 16.5 lb (7.5 • Toolless cov • Toolless dis • Toolless ada	(355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal apter retention
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors on prone None	System floo	Security Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 LPC bus)	B, USB,	Power-on password Administrator password Hard disk password Boot sequence control
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mousethernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereon High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None None	se (PS/2),	Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno	vo® logo	Supports ThinkVantage® technologies
Mouse Power supply	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing	-	GREENGUARD® certified RoHS-compliant
Preloaded oper - Windows® XP	rating system ²⁰ Accessories Professional preinstalled 1GB PC2-6400 DDR2 UDIMM	41U2977	Limited Warranty ¹

through downgrade rights in Genuine Windows 7 Professional

Preloaded applications⁵ (only some listed)

- · Some: Education software
 - VitalSource Library School Edition
 - Adobe® Elements
 - Photoshop Elements 7Premiere Elements 7
- Rescue and Recovery[™]
- Client Security Solution™
 ThinkVantage Productivity Center
- ThinkVantage System Update
- ThinkVantage Power Manager
- McAfee® VirusScan® Plus (30 days of virus definitions)
- Lenovo System Toolbox
- Adobe Réader®
- Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
 Corel® WinDVD® (DVD, DVD±RW)

2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort™ to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP)
ATI™ Radeon™ HD 3470 256MB (DP, VGA)
NVIDIA® Quadro® 256MB FX 370 LP 43R1985 45K1636 55Y9275 NVIDIA Quadro 256MB NVS 290 43R1765 More accessories on O-M58E sheet

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

- 3-year parts and labor International Warranty Service⁹ Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Name Type-mo	Slot x lel bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global Educ	Avail date	
M58e 7303-D M58e 7303-E M58e 7303-E M58e 7303-E M58e 7303-E M58e 7303-E M58e 7303-E M58e 7303-E M58e 7303-E	U 2x3 U 2x3	Pentium E5300 Pentium E5300 Core 2 Duo E7400 Core 2 Duo E7400 Core 2 Duo E7500 Core 2 Duo E7500 Core 2 Duo E8400 Core 2 Duo E8400 Core 2 Duo E8500 Core 2 Duo E8500 Core 2 Duo E8500 Core 2 Duo E8500	2.60 2.60 2.80 2.80 2.93 2.93 3.00 3.00 3.16 3.16	2MB 2MB 3MB 3MB 3MB 3MB 6MB 6MB 6MB	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1GB 2GB 1GB 2GB 1GB 2GB 1GB 2GB 1GB 2GB	160GB ² 250GB 160GB 160GB 160GB 160GB 160GB 250GB 250GB	DVD DVD±RW DVD DVD±RW DVD DVD±RW DVD±RW DVD±RW DVD±RW DVD±RW DVD±RW	GMA GMA GMA GMA GMA GMA GMA GMA	Business32 Business32 Business32 Business32 Business32 Business32 Business32 Business32 Business32	Basic Basic Basic Basic Basic Basic Basic Basic Basic	None None None None None None None None	Apr 09 Apr 09 Apr 09 Apr 09 Apr 09 Apr 09 Apr 09 Apr 09 Apr 09	
Positioning		stream enterprise stal						Small						
Processor Implementation Memory	Intel® 800M Intel (1066M Intel	Pentium® Processo Hz system bus, and 2 Core™ 2 Duo Proces MHz system bus, and Core 2 Duo Process dization Technology, T MB L2 cache essor in FC-LGA6 or F or 2GB std, 4GB max arity, dual-channel ca	er E530 2MB L2 3MB L 3MB L or E84 EXT, 13 EC-LGA (8, PC2 pable,	0 with a cache 7400 or 2 cache 00 or E 33MHz 48 pack 6400 8 two 240	dual-co or E7500 e or 8500 w system age in L 00MHz D-pin DI	re, with dual- ith dual-c bus, .GA775 s DDR2, MM sock	eocket	Bay ① 5.2 Bay ② 3.9 Bay ③ 3.9 Slot 1: Lot Slot 2: Lot	5", 1" hig 5", .5" hi w Profile, w Profile, s black co	high, access, gh, no acces gh, access, PCI Express 32-bit PCI 2.3	std o ss, std d open x16 (35v	(reader)		
Graphics	intel (integration one a support	talics: standard mem Graphics Media Acc ated graphics in G41, 253MB [1GB models nalog VGA DB-15 cor orts dual independent	elerato uses r 3], 765N nnector display	or X450 main me MB [2Gi r, Direct with o	0 (GMA emory B <i>mode</i> X® 10, ptional	x X4500) , <i>ls]</i>), ADD2 ad	apter	317mm16.5 lb (ToollessToollessToollessToolless	W X 355r 7.5 kg) in cover flip disk, opt adapter systemb	mm D X 99mr maximum co os up and tilts ical drive rem	nfigurati backwai oval	rd on rea	r hinges	
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial Some Some	B or 250GB, SATA 3. ATA, SATA 3.0Gb/s, E: DVD-ROM DL SATA E: Super Multi-Burner EATA cables (each 1-c	integra A 1.5G DL DV	ted in İ0 b/s 16-4 ′D±RW	CH7 18X Ma SATA 1	x ⁴ Drive .5Gb/s D	rive	Voystem	• Se op -	Security slot (in otional Kensin optional cable deactivating tower-on pass	ecurity I rear for gton® Mi e also loo he cover word	attachm croSave cks the c	r® cable) over by	
Chipset	I/O Co LPC b	,	/s, PCI		• Ha	dministrator p ard disk pass oot sequence oot without ke	word control yboard,		diskette					
Front ports Rear ports Rear audio port Audio	Four l etherr Line-i	JSB 2.0, microphone JSB 2.0, serial (9-pin net (RJ-45), monitor (n (stereo, 3.5mm), lin Definition (HD) Audio,), paral VGA D e-out (s	lel (25- _l B-15) stereo, :	oin), ke 3.5mm)	/board (P , microph	'S/2), mou	ise (PS/2),	USB port disablement					
Speaker IEEE 1394		nternal speaker for bu			,002 CO	uec			Sup	ports ThinkVa	antage® t	technolog	gies	
Ethernet Intel AMT Modem	Gigab None None	it ethernet on planar,	Marve	II® 88E8	3057, W	ake on L	AN®			EENGUARD® HS-compliant		l		
Security chip Keyboard	None	rrad Pro IISR Kaybaa	rd (LIC	R conn	actor) 1	04-key b	lack Land	ovo® logo			ted Warr	•		
Keyboard Mouse Power supply Preloaded on	Optica 280 w	referred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® I optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 80 watts with variable speed fan, autosensing								3-year parts a International \ Customer Rep parts only (wi	Narranty olaceable	Service ⁶ Unit (C	RU)	
- Genuine William - Genuine William - Genuine William - Genuine -	ndows Volication Recover ity Solution Produce Produce Power usScan irius definem Toolb der em Toolb der Busi Do (DVD)	ista® Business 32 is5 y™ on™ ctivity Center n Update Manager Plus nitions) oox oar 7 Trial (60-day) ness Edition ±RW)	1GB P 2GB P 500GE 1TB S DVD-F Super Display ADD2 ATI™ F NVIDIA NVIDIA More a Acc G	C2-640 3 SATA: ATA 3.0 ROM DL Multi-B yPort to DVI-D I Radeon A Quad A Quad accesso uide in p	0 DDR2 3.0Gb/s Gb/s Di . SATA - urner D . Single- Monitor ™ HD 3 dro® 250 ro 256M ries on	L DVD±R link DVI-I Connecti 470 256N 6MB FX 3 1B NVS 2 O-M58E ovo.com /	00 rpm) rpm) 6-48X Ma W SATA I D Cable on (HDCF MB (DP, VO 370 LP	Orive 41N56 45J79 P) 43R19 GA) 45K16 55Y92 43R17 esguide	777 778 990 118 618 620 15 15 1885 136 175 175 175 175 175 175 175 175 175 175	for selected p Mon - Fri cove mext business Onsite service (in eligible loo - 3-year LOR (ThinkPlus □ - 4-year LOR (ThinkPlus ser lenovo.com/th Post warrant) Benovo.com/th Post warrant) Sedduring the wa via 800-426-73	erage exc c day res c day res e upgrad eations): '.' 9x5, 4 ho eart numb 9x5, Nex eart numb 9x5, Nex eart numb 24x7, 4 leart numb vices at inkplus/w mainter able ay14 toll-fr rranty per	cluding he ponse tine option. our responder 41C9 for trespour responser 41C91 for 41C	oolidays, me) ss onse 9192) oonse 193) sss Day 194) onse 195) oonse	

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e M58e	7303-BAU 7303-BBU	2x3 2x3	Pentium E6300 Core 2 Duo E7500	2.80 2.93	2MB 3MB	2	2GB 2GB	250GB ² 250GB	DVD±RW DVD±RW	GMA GMA	Pro 32 Pro 32	None None	Jan 10 Jan 10
M58e	7303-BBU 7303-BCU	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	250GB 250GB	DVD±RW DVD±RW	GMA	Pro 32	None	Jan 10

These models have a 3-year limited warranty¹

Positioning	Mainstream enterprise stability and manageability	Small	Li diok
Processor Implementation	Intel® Pentium® Processor E6300 with dual-core, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 with dual-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	Bay ② 3.5", Bay ③ 3.5",	1.6" high, access, std optical 1" high, no access, std disk 5" high, access, open (reader)
Memory	2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; Non-italics: standard memory in one socket; one socket available	Slot 2: Low Pro-	rofile, PCI Express x16 (35w max) rofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter	• 317mm W X • 16.5 lb (7.5 • Toolless cov • Toolless dis	(355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal
SATA disk SATA controller SATA DVD±RW SATA cables	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors	 Toolless sys 	apter retention stemboard retention r stand for vertical orientation
eSATA port Diskette drive Media reader	None None		Security • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 LPC bus)	3, USB,	optional cable also locks the cover by deactivating the cover release buttons Power-on password Administrator password
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mc USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), moutethernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 1900) High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None None	ise (PS/2), eo, 3.5mm)	Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing		Supports ThinkVantage® technologies
Preloaded oper	rating system ²⁰ Accessories		GREENGUARD® certified

Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Lenovo Online Data Backup
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader® Adobe Flash® Player

- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)

1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015
500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990
1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918
Super Multi-Burner DL DVD±RW SATA Drive 41N5620
DisplayPort™ to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP)
ATI™ Radeon™ HD 3470 256MB (DP, VGA)
NVIDIA® Quadro® 256MB FX 370 LP 43R1985 45K1636 55Y9275 NVIDIA Quadro 256MB NVS 290 43R1765

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

More accessories on O-M58E sheet

RoHS-compliant

Limited Warranty¹

- ⇒ 3-year parts and labor
 ⇒ International Warranty Service⁹
 ⇒ Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - **3-year LOR 9x5, 4 hour response** (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

	Name	Type-model	Slot x bay	Processor	•							ENERGY STAR 5.0	Preload	Global Educ	Avail date
* <	M58e M58e M58e	7506-C7U 7506-B9U 7506-C1U 7506-C2U 7506-C9U	2x3 2x3	Pentium E5200 Pentium E5300 Core 2 Duo E7400 Core 2 Duo E8400 Core 2 Duo E8400 ese models have a 3-	2.50 2.60 2.80 3.00 3.00	2MB 2MB 3MB 6MB 6MB	2 2 2 2 2 2	1GB 1GB 2GB 2GB 2GB	160GB ² 160GB 160GB 160GB 160GB	DVD DVD DVD±RW DVD±RW DVD±RW	GMA GMA GMA GMA GMA	ES50 ES50 ES50	XP Pro XP Pro XP Pro XP Pro XP Pro	Educ	Apr 09 Apr 09 Apr 09 Apr 09 Apr 09
	Positio		Main	stream enterprise sta	bility an	d mana	ngeabili	ity		Small		Op	tical L	disk	$\overline{}$
	Proces	ssor	800M Intel 1066 Intel Virtua and 6	Pentium® Processe Hz system bus, and Core™ 2 Duo Proce MHz system bus, and Core 2 Duo Processe alization Technology, BMB L2 cache	2MB L2 ssor E7 d 3MB L3 sor E840 TXT, 133	cache 400 wit 2 cache 00 with 33MHz	or h dual e or dual-c system	ore, bus,	·	Bay ① 5.29 Bay ② 3.5' Bay ③ 3.5'	', ´1" high ', .5" high	gh, access , no acc	s, std o	reader)	
	Implen Memoi	nentation rv	Proce	essor in FC-LGA6 or or 2GB std , 4GB ma	_				ocket	Slot 1: Low Slot 2: Low	Profile, 3	2-bit PCI	2.3	w max)	
			non-p	parity, dual-channel c italics: standard mer	apable, t	wo 240)-pin DI	IMM sock		• Business • 12.5" W X • 317mm W	(14.0" D)	X 3.9" H			
	Graphi	cs	integr (up to one a	Graphics Media Acc rated graphics in G41 o 512MB [1GB model analog VGA DB-15 co orts dual independen	, uses n ls], 1GB nnector	nain me <i>[2GB n</i> Direct:	emory nodels] X® 10,),		 16.5 lb (7 Toolless of Toolless of T	cover flips disk, optica adapter re systemboa	up and til al drive re tention ard retenti	ts backwa moval on	rd on rea	r hinges
	SATA [SATA [SATA c eSATA Diskett	controller DVD DVD±RW cables	Seria Some Some	•	integrat ΓΑ 1.5Gl r DL DV	ed in IC b/s 16-4 D±RW	CH7 I8X Ma SATA 1	x ⁴ Drive I.5Gb/s D	rive	• System fl	• Sec opti - op	curity slot onal Kens otional cal	Security (in rear for sington® M ble also lo	attachme	® cable) over by
	Chipse	et		G41 Express Chips ontroller Hub 7 [ICH7 bus)	3, USB,	Adn Har Boo	ninistrator d disk pas t sequenc	password		liskette					
	Front p Rear p Rear a Audio Speak	orts audio ports	Four ether Line-High	JSB 2.0, microphone USB 2.0, serial (9-pii net (RJ-45), monitor (stereo, 3.5mm), lii Definition (HD) Audic Internal speaker for b	n), parall (VGA DI ne-out (s o, Realte	el (25-p 3-15) stereo, 3 k® ALC	oin), ke 3.5mm)	yboard (F), microph	'S/2), mou	ise (PS/2),	Ser Para	ial port I/C	O control /O control	•	
	IĖEE 1 Ethern Intel A Moden	394 et MT n	None Gigal None None	pit ethernet on planar			8057, W	/ake on L	AN®		Clima	te Savers	Vantage®	nt	jies
	Keyboa Mouse		Optic	rred Pro USB Keybo al Wheel Mouse (US vatts with variable sp	B conne	ctor), 4	00 dpi,	black, Le	novo logo	ovo® logo	Some	: ENERG	iY STAR® : D® certified	5.Ö-comp	liant
	Preic - Ge (pr Wii Preic - So - V - A	paded opera- paded opera- paded appli- paded	ating a down a d	system ²⁰ KP Professional ngrade rights in iness) ns ⁵ oftware School Edition ents 7 ots 7 ry TM cion TM citvity Center m Update Plus initions) box bar 77 Trial (60-day) iness Edition	Acces: 1GB Pt 2GB Pt 250GB 500GB 1TB SA DVD-R Super I Display ADD2 I ATIME NVIDIA NVIDIA More a Acc Gu	Sories C2-640 C2-640 SATA 3.00 OM DL Multi-Bi Port to DVI-D N adeon Quadi ccesso uide in p	0 DDR 0 DDR 3.0Gb/s 3.0Gb/s Gb/s D SATA urner D Single Monitor [™] HD 3 dro® 25 ro 256M ries on	2 UDIMM 2 UDIMM 5 Disk (72 5 Disk (7200 1.5Gb/s 1 1. DVD±F -link DVI- Connect 1470 256M 6MB FX 0-M58E	000 rpm) 000 rpm) rpm) 6X-48X M W SATA I D Cable on (HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF 0HDCF	Orive 41N562 45J791 P) 43R198 GA) 45K163 55Y927 43R176 esguide	78	year parts ternationa ustomer R rts only (t r selected on - Fri co ext busine site servi 3-year LO (ThinkPlus 4-year LO	day ¹⁴ toll-f varranty p	r Services e Unit (CI d onsite s am - 5 pm cluding h sponse tir le options r our responser 41C91 our responser 41C91 our responser 41C91 our responser 41C91 warranty nance free supp	RU) service , olidays, ne) s onse 0192) oonse 93) ss Day 94) oonse 95) oonse

Name		Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	ENERGY STAR 5.0	Preload	Global Educ	Avail date
M58e M58e	7506-M2U 7506-M1U		Pentium E5300 Core 2 Duo E7500	2.60 2.93	2MB 3MB	2	2GB 2GB	160GB ² 160GB	DVD±RW DVD±RW	GMA GMA	ES50 ES50	XP Pro XP Pro	None None	Jul 09 Jul 09

• These models have a 3-year limited warranty

Positioning Processor	800MHz system bus, and Intel Core™ 2 Duo Proce 1066MHz system bus, and	or É5300 with dual-core, 2MB L2 cache or essor E7500 with dual-core,		optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk
Memory	2GB std, 4GB max ⁸ , PC2 non-parity, dual-channel of		Bay ③ 3.5", Slot 1: Low P	.5" high, access, open (reader) rofile, PCI Express x16 (35w max) rofile, 32-bit PCI 2.3
Graphics	integrated graphics in G4 one analog VGA DB-15 co	celerator X4500 (GMA X4500), 1, uses main memory (up to 1GB), onnector, DirectX® 10, nt display with optional ADD2 adapter	• 12.5" W X 1 • 317mm W X • 16.5 lb (7.5	ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H kg) in maximum configuration
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV	00 rpm, vibration dampening mounts, integrated in ICH7 /D±RW SATA 1.5Gb/s Drive -drop to device), two SATA connectors	Toolless disToolless adaToolless sys	ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention r stand for vertical orientation Security
Chipset	Intel G41 Express Chips I/O Controller Hub 7 [ICH: LPC bus)	set (PCI Express® x16), 7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.	3, USB,	Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) optional cable also locks the cover by deactivating the cover release buttons
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Four USB 2.0, serial (9-pi ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for b None	ne-out (stereo, 3.5mm), microphone (stereo, Realtek® ALC662 codec	use (PS/2),	Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Keyboard Mouse		ard (USB connector), 104-key, black, LeneB connector), 400 dpi, black, Lenovo logo		Supports ThinkVantage® technologies
Power supply		eed fan, autosensing, 85% PSU		Climate Savers®-compliant EPEAT™ Gold rating
Preloaded operating system ²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business) Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 250GB SATA 3.0Gb/s Disk (7200 rpm)				ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Dreleaded anni	,	250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015 43R1990	Limited Warrantv ¹

Preloaded applications⁵

- Rescue and Recovery™
- Client Security Solution™
 ThinkVantage Productivity Center
 ThinkVantage System Update
- McAfee® VirusScan® Plus (30 days of virus definitions)
- Lenovo System Toolbox Adobe® Reader®
- Windows Live™ Toolbar Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) ATI™ Radeon™ HD 3470 256MB (DP, VGA) 43R1985 45K1636 NVIDIA® Quadro® 256MB FX 370 LP NVIDIA Quadro 256MB NVS 290 55Y9275 43R1765 More accessories on O-M58E sheet

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

Limited Warranty

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

Name		Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	ENERGY STAR 5.0	Preload	Global Educ	Avail date
M58e	7506-N6U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB ²	DVD±RW	GMA	ES50	XP Pro	None	Oct 09

• This model has a 3-year limited warranty

Positioning Processor	Mainstream enterprise sta Intel® Pentium® Processo Virtualization Technology, and 2MB L2 cache	or E6300 with dual-core,	Small	optical disk (in rear)
Implementation	Processor in LGA775 sock	ket		1.6" high, access, std optical
Memory		6400 800MHz DDR2, apable, two 240-pin DIMM sockets; nory in one socket; one socket available	Bay 3 3.5",	1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express x16 (35w max)
Graphics	integrated graphics in G41 one analog VGA DB-15 co	celerator X4500 (GMA X4500), , uses main memory (up to 1GB), onnector, DirectX® 10, t display with optional ADD2 adapter	Business bl12.5" W X 1317mm W X	rofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H K 355mm D X 99mm H
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	00 rpm, vibration dampening mounts integrated in ICH7 D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	Toolless covToolless disToolless adaToolless sys	kg) in maximum configuration ver flips up and tilts backward on rear hinges ik, optical drive removal apter retention stemboard retention or stand for vertical orientation
Chipset	Intel G41 Express Chipse I/O Controller Hub 7 [ICH7 LPC bus)	et (PCI Express® x16), '] (SATA 3.0Gb/s, PCI Express x1, PCI 2.	3, USB,	Security Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) optional cable also locks the cover by
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Four USB 2.0, serial (9-pir ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lir High Definition (HD) Audio One internal speaker for b None	ne-out (stereo, 3.5mm), microphone (ster v, Realtek® ALC662 codec	use (PS/2),	deactivating the cover release buttons Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Keyboard Mouse	Optical Wheel Mouse (US	ard (USB connector), 104-key, black, Len B connector), 400 dpi, black, Lenovo logo		Supports ThinkVantage® technologies
through down	rating system ²⁰ Professional preinstalled grade rights in Genuine	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM	41U2977 41U2978	Climate Savers®-compliant - EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Rescue and F Client Security ThinkVantage ThinkVantage ThinkVantage McAfee® Virus (30 days of virus Lenovo Systel Adobe® Reade Windows Live Microsoft® Off	ications ⁵ (only some listed) lecovery™ / Solution™ Productivity Center System Update Power Manager Scan® Plus rus definitions) m Toolbox ler® Toolbox location (60-day) r® Business Edition © (DVD±RW)	250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200	45J7915 P) 43R1985 GA) 45K1636 55Y9275 43R1765	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 · 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) · 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) · 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) · 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) · 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9195) · 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Vista preload	Vista logo	Global (G) GMP (P)	Avail date
M58e	7408-A1U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB ²	DVD±RW	GMA	Business32	Basic	GΡ	Apr 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning				
Processor	Intel® Core™ 2 Duo Proc	ability and manageability essor E8400 with dual-core, TXT, 1333MHz system bus,	Small	optical disk (in rear)
Implementation	Processor in FC-LGA8 pa	ckage in LGA775 socket	Bay ① 5.25".	1.6" high, access, std optical
Memory		-6400 800MHz DDR2, apable, two 240-pin DIMM sockets; mory in one socket; one socket available	Bay ② 3.5", Bay ③ 3.5",	1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express x16 (35w max)
Graphics	integrated graphics in G4 one analog VGA DB-15 co	celerator X4500 (GMA X4500), 1, uses main memory (up to 765MB), onnector, DirectX® 10, at display with optional ADD2 adapter	Slot 2: Low P • Business bl • 12.5" W X 1 • 317mm W >	rofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV	00 rpm, vibration dampening mounts , integrated in ICH7 /D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	Toolless covToolless disToolless ada	kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention Security
Chipset	Intel G41 Express Chips	et (PCI Express® x16)		Security slot (in rear for attachment of
		7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.	3, USB,	optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons
Front ports Rear ports	Four USB 2.0, serial (9-pi	e (stereo, 3.5mm), headphone (stereo, 3.5 n), parallel (25-pin), keyboard (PS/2), mou		Power-on password Administrator password
Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem	High Definition (HD) Audio One internal speaker for b None	ne-out (stereo, 3.5mm), microphone (stereo, Realtek® ALC662 codec	eo, 3.5mm)	Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Security chip	None			
Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable sp	ard (USB connector), 104-key, black, Len- B connector), 400 dpi, black, Lenovo logo eed fan, autosensing	ovo® logo	
	<u>-</u>			Supports ThinkVantage® technologies
- Genuine Wind	rating system ²⁰ dows® Vista® Business 32	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM	41U2977 41U2978	GREENGUARD® certified RoHS-compliant
 Preloaded app Rescue and F 		250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	Limited Warranty ¹
ThinkVantage ThinkVantage McAfee® Viru (30 days of vi Lenovo Syste Adobe® Read Windows Live Microsoft® Of	Froductivity Center System Update Power Manager Secan® Plus rus definitions) m Toolbox er® Toolbar fice 2007 Trial (60-day) or® Business Edition	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I DisplayPort to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® Quadro® 256MB FX 370 LP NVIDIA Quadro 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	45J7915 43R1985 GA) 45K1636 55Y9275 43R1765 esguide	3-year parts and labor International Warranty Service ⁹ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations): ⁷ 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Win7 preload	Global (G) GMP (P)	Avail date
M58e	7408-A2U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	320GB ²	DVD±RW	GMA	Pro 32	GΡ	Oct 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Virtualization Technology, and 6MB L2 cache	essor E8400 with dual-core, TXT, 1333MHz system bus,	Small	optical disk (in rear)				
Implementation	Processor in LGA775 soci			1.6" high, access, std optical				
Memory		-6400 800MHz DDR2, apable, two 240-pin DIMM sockets; nory in one socket; one socket available	Bay 3 3.5",	1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express x16 (35w max)				
Graphics	Intel Graphics Media Ac	celerator X4500 (GMA X4500)		rofile, 32-bit PCI 2.3				
	integrated graphics in G41 one analog VGA DB-15 co	, uses main memory (up to 765MB),	• 12.5" W X 1 • 317mm W X	ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H				
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	00 rpm, vibration dampening mounts integrated in ICH7 D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear Toolless disk, optical drive removal Toolless adapter retention Toolless systemboard retention System floor stand for vertical orientation					
Chipset	Intel G41 Express Chips I/O Controller Hub 7 [ICH7 LPC bus)	et (PCI Express® x16), ?] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3	3, USB,	Security Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)				
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem	Four USB 2.0, serial (9-pin ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lin High Definition (HD) Audic One internal speaker for b None	ne-out (stereo, 3.5mm), microphone (stere o, Realtek® ALC662 codec	ise (PS/2),	- optional cable also locks the cover by deactivating the cover release buttons - Power-on password - Administrator password - Hard disk password - Boot sequence control - Boot without keyboard, mouse, diskette - Serial port I/O control - Parallel port I/O control - USB port disablement				
Security chip	None							
Keyboard Mouse Power supply		ard (USB connector), 104-key, black, Lend B connector), 400 dpi, black, Lenovo logo eed fan, autosensing		Supports ThinkVantage® technologies				
Preloaded oper	rating system ²⁰	Accessories						
- Genuine Wind	lows® 7 Professional 32 ications⁵ (only some listed)	1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM	41U2977 41U2978	GREENGUARD® certified RoHS-compliant				
 Rescue and F 	Recovery™`	250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015 43R1990	Limited Warranty ¹				
 ThinkVantage Lenovo Online Norton™ Inter (30 days of vir Adobe® Reade Adobe Flash® Skype™ for W Microsoft® Off 	System Update Power Manager Toolbox e Data Backup net Security 2009 rus definitions) er® Player indows icce 2007 Trial (60-day) ir® Business Edition	TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I DisplayPort™ to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® Quadro® 256MB FX 370 LP NVIDIA Quadro 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessorio Other accessories at lenovo.com/accessorio	45J7918 Orive 41N5620 45J7915 43R1985 GA) 45K1636 55Y9275 43R1765 esguide	3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378				

Name	Slot x Name Type-model bay Processor		Processor	GHz	L2 GHz cache Cores Memory ⁸				SATA SATA disk optical Graphics			Vista preload		Global (G) GMP (P)	
M58e	7514-A2U	2x3	Core 2 Duo E8400	3.00	6MB	2	2GB	160GB ²	DVD±RW	GMA	ES50	Bus32	Basic	GP /	Apr 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service3 3-year limited warranty

Positioning Processor		ressor E8400 with dual-core, TXT, 1333MHz system bus,	Small	optical disk (in rear) 1.6" high, access, std optical
Memory		-6400 800MHz DDR2, capable, two 240-pin DIMM sockets; mory in one socket; one socket available	Bay ② 3.5", Bay ③ 3.5",	1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express x16 (35w max)
Graphics	integrated graphics in G4 one analog VGA DB-15 c	celerator X4500 (GMA X4500), 1, uses main memory (up to 765MB), onnector, DirectX® 10, nt display with optional ADD2 adapter	Slot 2: Low P Business blace 12.5" W X 1	rofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL D\	00 rpm, vibration dampening mounts , integrated in ICH7 /D±RW SATA 1.5Gb/s Drive -drop to device), two SATA connectors	Toolless covToolless disToolless ada	kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention Security
Chipset	Intel G41 Express Chips	set (PCI Express® x16), 7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3	3, USB,	Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT	Four USB 2.0, serial (9-pi ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), li High Definition (HD) Audi One internal speaker for b None Gigabit ethernet on plana None	ne-out (stereo, 3.5mm), microphone (stereo, Realtek® ALC662 codec	ıse (PS/2),	Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Modem Security chip	None None			Supports ThinkVantage® technologies
Keyboard Mouse Power supply Preloaded oper - Genuine Wind	Optical Wheel Mouse (US 280 watts with variable sp	eard (USB connector), 104-key, black, Lenob BB connector), 400 dpi, black, Lenovo logo beed fan, autosensing, 85% PSU Accessories 1GB PC2-6400 DDR2 UDIMM		Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant
 ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Systel Adobe® Reade Windows Live Microsoft® Off 	decovery TM / Solution TM Productivity Center System Update Power Manager Scan® Plus us definitions) m Toolbox er® TM Toolbar ice 2007 Trial (60-day) r® Business Edition	2GB PC2-6400 DDR2 UDIMM 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA ID DisplayPort to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VCN VIDIA® Quadro® 256MB FX 370 LP NVIDIA Quadro 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	45J7915 43R1985 GA) 45K1636 55Y9275 43R1765 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x Name Type-model bay	Processor	GHz	L2 cache	Cores IV	lemory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Global Educ	Avail date
M58e 7258-B1U 4x4	Pentium E6300	2.80	2MB	2	1GB	250GB ²	None	DVD	GMA	XP Pro	None	Nov 09
M58e 7258-B2U 4x4	Pentium E6300	2.80	2MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro	None	Nov 09
M58e 7258-B3U 4x4	Pentium E6300	2.80	2MB	2	3GB	500GB	None	DVD±RW	GMA	XP Pro	None	Nov 09

These small and medium business (SMB) models are part of the US TopSeller™ Program

	These small and mediul These models have a 1-	m business (SMB) models are part of the year limited warranty	US TopSeller™	Program
Positioning Processor Implementation	Mainstream enterprise sta Intel® Pentium® Processo 1066MHz system bus, and Processor in LGA775 sock	or E6300 with dual-core, I 2MB L2 cache	• 6.9" W X 17	ack color; metal case 3" D X 15.8" H 440mm D X 402mm H
Memory	non-parity, dual-channel ca Italics: standard men	GB max ⁸ , PC2-6400 800MHz DDR2 , apable, two 240-pin DIMM sockets; nory in both sockets; no sockets avail; nory in one socket; one socket available	24.7 lb (11.2Handle on toToolless covToolless dis	2 kg) in max configuration op front ver removal k, diskette drive,
Graphics	integrated graphics in G41 (up to 512MB [1GB model one analog VGA DB-15 co	s], 1GB [2GB or 3GB models]),	Bay ① 5.25",	1.6" high, access, std optical 1.6" high, access, open
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive	Serial ATA, SATA 3.0Gb/s, Some: DVD-ROM DL SAT Some: Super Multi-Burner	.0Gb/s 7200 rpm, vibration dampening integrated in ICH7 'A 1.5Gb/s 16-48X Max ⁴ Drive r DL DVD±RW SATA 1.5Gb/s Drive drop to device), four SATA connectors	Bay @ 3.5", Slot 1: half-lei Slot 2: half-lei Slot 3: half-lei	1" high, no access, std disk ngth, full-height, PCI Express x16 (75w max) ngth, full-height, PCI Express x1 ngth, full-height, 32-bit PCI 2.3 ngth, full-height, 32-bit PCI 2.3
Media reader Chipset	None Intel G41 Express Chipse	et (PCI Express® x16), [] (SATA 3.0Gb/s, PCI Express x1, PCI 2.	3, USB,	Security One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Four USB 2.0, serial (9-pir ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lir High Definition (HD) Audio One internal speaker for b None	ne-out (stereo, 3.5mm), microphone (stere , Realtek® ALC662 codec	ıse (PS/2),	Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, diskette • Serial port I/O control • Parallel port I/O control • USB port disablement
Keyboard Mouse Power supply	Optical Wheel Mouse (USI 280 watts with variable spe		ovo® logo)	Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant
through downg Windows 7 Properties of Preloaded application Rescue and Rescue	Professional preinstalled grade rights in Genuine ofessional ications⁵ (only some listed) ecovery™ / r Solution™ Productivity Center System Update Power Manager Scan® Plus us definitions) m Toolbox er® Toolbox ice 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) DVD-ROM DL SATA 1.5Gb/s 16-48X Ma Super Multi-Burner DL DVD±RW SATA ISGb/s Drive DisplayPort™ to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® GeForce® 9500GT 512MB (DP, VI) NVIDIA Quadro® 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	Orive 41N5620 45K1675 45J7915 P) 43R1985 GA) 45K1636 DVI)45K1635 43R1765 esguide	Limited Warranty¹ 1-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):⁻ 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) 2-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9187) 2-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9190) 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9188) 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9188) 3-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9191) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x Name Type-model bay	Processor	GHz	L2 cache	Cores M	emory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e 7258-D3U 4x4	Celeron E3200	2.40	1MB	2	1GB	250GB ²	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e 7258-D2U 4x4	Pentium E5400	2.70	2MB	2	2GB	250GB	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e 7258-D1U 4x4	Pentium E5400	2.70	2MB	2	3GB	320GB	None	DVD±RW	GMA	Pro 32	None	Jan 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty

Positioning Processor	Intel® Celeron® Proces 800MHz system bus, an	sor E5400 with dual-core, d 2MB L2 cache	Business black color; metal case 6.9" W X 17.3" D X 15.8" H 175mm W X 440mm D X 402mm H 24.7 lb (11.2 kg) in max configuration Handle on top front			
Memory	non-parity, dual-channel <i>Italics:</i> standard m	4GB max ⁸ , PC2-6400 800MHz DDR2 , capable, two 240-pin DIMM sockets; emory in both sockets; no sockets avail; emory in one socket; one socket available	 Toolless cov Toolless dis optical drive 	ver removal sk, diskette drive,		
Graphics	integrated graphics in G- (up to 253MB [1GB models]), one analog VGA DB-15	dels], 765MB [2GB models], or	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-le	1.6" high, access, std optical 1.6" high, access, open 1" high, access, open (reader/diskette) 1" high, no access, std disk ngth,full-height, PCI Express x16 (75w max)		
SATA disk SATA controller SATA DVD±RW	Serial ATA, SATA 3.0Gb/	. 3.0Gb/s 7200 rpm, vibration dampening /s, integrated in ICH7 DVD±RW SATA 1.5Gb/s Drive	Slot 3: half-le	ngth,full-height, PCI Express x1 ngth,full-height, 32-bit PCI 2.3 ngth,full-height, 32-bit PCI 2.3		
SATA cables eSATA port Diskette drive Media reader	Two SATA cables (each None None None	1-drop to device), four SATA connectors or	n planar	Security One lock to secure both cover and entire system to fixed object:		
Chipset		oset (PCI Express® x16), H7] (SATA 3.0Gb/s, PCI Express x1, PCI 2	2.3, USB,	Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password		
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modern	Four USB 2.0, serial (9- ethernet (RJ-45), monito Line-in (stereo, 3.5mm), High Definition (HD) Auc One internal speaker for None	line-out (stereo, 3.5mm), microphone (ste dio, Realtek® ALC662 codec	ouse (PS/2),	Administrator password Hard disk password Boot sequence control Boot without keyboard, diskette Serial port I/O control Parallel port I/O control USB port disablement		
Security chip	None			Supports ThinkVantage® technologies		
Keyboard Mouse Power supply	Optical Wheel Mouse (U	poard (USB connector), 104-key, black, Lei ISB connector), 400 dpi, black, Lenovo log speed fan, manual switch		GREENGUARD® certified RoHS-compliant		
Preloaded oper	rating system ²⁰ lows® 7 Professional 32	Accessories 1GB PC2-6400 DDR2 UDIMM	41U2977	Limited Warranty ¹		
- Genuine Wind	iows / Fluiessional 32	OCD DC0 C400 DDD0 UDIMM	4102977	1-year parts and labor		

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager ThinkVantage Toolbox
- Lenovo Online Data Backup Norton™ Internet Security 2009
- (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day) Roxio® Creator® Business Edition
- (DVD±RW)
- Roxio MyDVD® (DVD±RW)

2GB PC2-6400 DDR2 UDIMM 41U2978 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive DisplayPort™ to Single-link DVI-D Cable 45K1675 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 43R1765 More accessories on O-M58E sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at **lenovo.com**/accessories

- ✓ International Warranty Service⁹
 ✓ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm,
- Mon Fri coverage excluding holidays, next business day response time) Onsite service upgrade options
- (in eligible locations):
 - 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9189) 2-year LOR 9x5, Next Business Day
- (ThinkPlus part number 41C9187) 2-year LOR 9x5, 4 hour response
- (ThinkPlus part number 41C9190) 3-year LOR 9x5, Next Business Day
- (ThinkPlus part number 41C9188) 3-year LOR 9x5, 4 hour response
- (ThinkPlus part number 41C9191)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

Name Type-model	Slot x bay Processor	GHz cache (Cores Memory ⁸	SATA disk	2nd Disk Bay		Graphics	Chassis intr switch	Preload	Global Educ	Avail date
M58e 7268-C4U	4x4 Pentium E6300 4x4 Pentium E6300 4x4 Core 2 Duo E7500 4x4 Core 2 Quad Q9400	2.83 6MB	2 1GB 2 2GB 2 1GB 2 2GB 2 3GB 4 3GB 4 3GB	250GB ² 250GB 250GB 250GB 320GB 500GB	None None None None	DVD±RW DVD DVD±RW DVD±RW DVD±RW DVD±RW	GMA GMA GMA GMA GMA	Switch Switch	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	None None None None	Jan 10 Nov 09 Nov 09 Nov 09 Nov 09
	These models have a 3			- part or							
Positioning Processor	Mainstream enterprise sta Intel® Pentium® Process 800MHz system bus, and Intel Pentium Processor 1066MHz system bus, and Intel Core™ 2 Duo Proce 1066MHz system bus, and Intel Core 2 Quad Proce 1333MHz system bus, and Processor in LGA775 soc	or E5400 with a 2MB L2 cache E6300 with dual 2MB L2 cach ssor E7500 wid 3MB L2 cach ssor Q9400 or d 6MB L2 cach	dual-core, or lal-core, e or th dual-core, e or Q9500 with q	uad-core	• 6.9 • 17 • 24 • Ha • To • To	ver usiness bla 9" W X 17. '5mm W X 1.7 lb (11.2 andle on to olless covolless disk otical drive olless ada	3" D X 15. 440mm D kg) in ma p front er remova diskette removal	.8" H X 402mn x configur I drive,	n Ḥ	optica ② ③ disk	
Memory	Non-italics: standard mer	apable, two 24 nory in both so nory in one so	Bay Bay le Bay	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diske Bay ④ 3.5", 1" high, no access, std disk							
Graphics	Intel Graphics Media Ac integrated graphics in G4 ^a (up to 512MB <i>[1GB mode</i> one analog VGA DB-15 co supports dual independen	, uses main m ls], 1GB [2GB on nector, Direc	emory o <i>r 3GB model</i> : tX® 10,	1: half-len 2: half-len 3: half-len 4: half-len	gth,full-he gth,full-he gth,full-he	eight, PCI eight, PCI eight, 32-b	Express Express it PCI 2.	x16 (75 x1 3	ōw max)		
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB, 320GB, or 500GE vibration dampening moun Serial ATA, SATA 3.0Gb/s, Some: DVD-ROM DL SAT Some: Super Multi-Burne Two SATA cables (each 1-None None None	ar	entire s - Padlo - Secu Kens - Power - Admini	ck to secu system to ock loop (i rity slot (ir ington® Mi on passw strator pa	fixed obj n rear for n rear for icrosaver ord ssword	ect: r opt pa optiona	dlock) al				
Chipset	Intel G41 Express Chips I/O Controller Hub 7 [ICH7] LPC bus)	7] (SATA 3.0Gb	/s, PCÍ Expres			В,	Hard disk password Boot sequence control Boot without keyboard, diskette Serial port I/O control Parallel port I/O control				
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphone Four USB 2.0, serial (9-pir ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), li High Definition (HD) Audio	n), parallel (25- (VGA DB-15) ne-out (stereo,	pin), keyboard 3.5mm), micro	d (PS/2), r	nouse (F		 USB per 	ort disable Chassis i	ement	switch	
Speaker IEEE 1394	One internal speaker for b		0000				Supports	ThinkVar	ntage® te	chnolog	jies
Ethernet Intel AMT Modem	Gigabit ethernet on planar None None	r, Marvell® 88E	8057, Wake oi	n LAN®			GREEN(RoHS-co	GUARD® ompliant	ertified		
Keyboard Mouse Power supply	None Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable sp	B connector), 4	400 ďpi, black,			ogo		r parts and national Wa	arranty S aceable l	Service ⁹ Unit (CF	RU)
through downg Windows 7 Pro Preloaded appli Rescue and R Client Security ThinkVantage ThinkVantage ThinkVantage McAfee® Virus (30 days of virus Lenovo Syster Adobe® Reade Windows Live! Microsoft® Offi Roxio® Creator (DVD±RW) Roxio MyDVD®	Professional preinstalled grade rights in Genuine ofessional cations ⁵ (only some listed) ecovery TM 'Solution TM Productivity Center System Update Power Manager Scan® Plus us definitions) in Toolbax er® Toolbar ce 2007 Trial (60-day) ® Business Edition	2GB PC2-640 500GB SATA 1TB SATA 3.C DVD-ROM DI Super Multi-B Blu-ray™ Burn DisplayPort™ ADD2 DVI-D ATII™ Radeon NVIDIA® GeF NVIDIA Quad More accessor Acc Guide in	00 DDR2 UDIN 00 DDR2 UDIN 3.0Gb/s Disk Gb/s Disk (72 L SATA 1.5Gb/ urner DL DVD ner SATA 1.5G to Single-link Monitor Conne ™ HD 3470 25 orce® 9500GT ro® 256MB NV ories on O-M5 pdf lenovo.co	for se Mon- next I Onsit (in eli 3-y (Th 3-y (Th 4-y (Th 4-y (Th 4-y (Th Post N service 24 ho durin	only (with lected pane Fri cover. Fri cover. Susiness of e service gible loca eear LOR 9 inkPlus panear LOR 9 ink	rts³, 8 am age excliday responding to respon	i - 5 pm uding h ponse tin options ir responser 41C9 r 41C91 Busine r 41C91 ir responser 41C91 our responser 41C91 rranty nce	olidays, ne) onse oliga) oonse 93) ss Day 94) onse 95) oonse 96)			

Name Type-mod	Slot a	r Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e 7268-D3 M58e 7268-D4 M58e 7268-D5 M58e 7268-D6 ■ M58e 7268-E2	J 4x4 J 4x4 J 4x4	Pentium E5400 Pentium E5400 Core 2 Duo E7500 Core 2 Quad Q9400 Core 2 Quad Q9500	2.70 2.70 2.93 2.66 2.83	2MB 2MB 3MB 6MB 6MB	2 2 2 4 4	1GB 2GB 3GB 3GB 3GB	250GB ² 250GB 320GB 500GB	None None None None None	DVD DVD±RW DVD±RW DVD±RW DVD±RW	GMA GMA GMA GMA GMA	Pro 32 Pro 32 Pro 32 Pro 32 Pro 32	None	Jan 10 Jan 10 Jan 10 Jan 10 Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9400 or Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	6.9" W X 17 175mm W X 24.7 lb (11.2 Handle on to Toolless cov	ver removal
Memory	1GB, 2GB, or 3GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available	optical driveToolless adaBay ① 5.25",	eremoval å å å å å å å å å å å å å å å å å å å
Graphics SATA disk	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 253MB [1GB models], 765MB [2GB models], or 1277MB [3GB models]), on analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter	Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-le Slot 2: half-le Slot 3: half-le	1.6" high, access, open open (reader/diskette) 1" high, access, open (reader/diskette) 1" high, no access, std disk ogth, full-height, PCI Express x16 (75w max) ngth, full-height, 32-bit PCI 2.3 ngth, full-height, 32-bit PCI 2.3
SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB, 320GB, or 500GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors on None None	planar	Security One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® Microsaver® cable) Power-on password
Front ports Rear ports Rear audio ports	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 LPC bus) Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouethernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo,	mm) ise (PS/2),	Administrator password Hard disk password Boot sequence control Boot without keyboard, diskette Serial port I/O control Parallel port I/O control USB port disablement
Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None None		Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, manual switch		Limited Warranty 3-year parts and labor International Warranty Service Customer Replaceable Unit (CRU)

Preloaded operating system²⁰

Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager

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- ThinkVantage System Update
 ThinkVantage Power Manager
 ThinkVantage Toolbox
- Lenovo Online Data Backup
- Norton™ Internet Security 2009
- (30 days of virus definitions) Adobe® Reader®

- Adobe Flash® Player
 Skype™ for Windows
 Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)

Accessories

1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort™ to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) ATI™ Radeon™ HD 3470 256MB (DP, VGA) 43R1985 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 43R1765 43R1765 More accessories on O-M58E sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

	Slot x	L2	2nd Disk S		FireWire				
	4x4 Core 2 Duo E7300 4x4 Core 2 Duo E8400 4x4 Core 2 Duo E8400	3.00 6MB 2 2GB 3.00 6MB 2 2GB	160Gi 160Gi 160Gi 25-in-1 160Gi	B ² No DVE B No DVE B No DVE	otical Graphics O±RW GMA O±RW GMA O±RW GMA O±RW GMA		Bus32 Bus32 Bus32 Bus32	No /	Apr 09 Apr 09 Apr 09 Apr 09 Apr 09
Positioning Processor	800MHz system bus, and Intel Core™ 2 Duo Proce 1066MHz system bus, and	ability and manageability for E2220 with dual-core, I 1MB L2 cache or essor E7300 with dual-co Id 3MB L2 cache or	re,	• 6.9" W X 17 • 175mm W 2	olack color; meta 7.3" D X 15.8" F X 440mm D X 4 .2 kg) in max co	l ∙02mm H		optical ② ③ disk	
Implementation Memory	Virtualization Technology, and 6MB L2 cache Processor in FC-LGA6 or 2GB std, 4GB max ⁸ , PC2		A775 socket	Handle onToolless coToolless disoptical drive	top front over removal sk, diskette drive				1
Graphics	Non-italics: standard me Intel Graphics Media Ac integrated graphics in G4 one analog VGA DB-15 c	capable, two 240-pin DIMN mory in one socket; one scelerator X4500 (GMA X 1, uses main memory (up onnector, DirectX® 10, nt display with optional AD	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5",	, 1.6" high, acc , 1.6" high, acc 1" high, acc 1" high, no a y media reader	ess, c ess, c access, s			ette*	
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive	160GB, SATA 3.0Gb/s 72 Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV	200 rpm, vibration dampen	Slot 2: half-le Slot 3: half-le Slot 4: half-le	t 1: half-length,full-height, PCI Express x16 (75w ma t 2: half-length,full-height, PCI Express x1 t 3: half-length,full-height, 32-bit PCI 2.3** t 4: half-length,full-height, 32-bit PCI 2.3 occupied by FireWire adapter in some models					
Media reader Chipset	Some: 25-in-1 media rea Intel G41 Express Chips		3, USB,	Security One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock					
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem	Four USB 2.0, serial (9-p ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), I High Definition (HD) Audi One internal speaker for I Some: FireWire PCI ada 1394-1995 standa Gigabit ethernet on plana None	ine-out (stereo, 3.5mm), m o, Realtek® ALC662 code ousiness audio pter / IEEE 1394 FireWire	se (PS/2), eo, 3.5mm)	- Security : Kensingte Power-on p Administra Hard disk p Boot seque Boot witho Serial port Parallel po USB port of	on® Micro bassword tor password bassword ence con ut keyboot I/O contr rt I/O cor	oSaver® I word I trol ard, mou rol ntrol	cable)		
Security chip Keyboard	None None Preferred Pro USB Keybo	pard (USB connector), 104	-key, black, Lenc	ovo® logo	Supports Thi	nkVanta	ge® tech	nologie	es
Mouse Power supply	280 watts with variable sp		ick, Lenovo logo	_	GREENGUA RoHS-compl		tified		
 ♦ Vista Basic log Preloaded appli • Rescue and Re • Client Security • ThinkVantage • ThinkVantage • McAfee® Virus (30 days of virus • Lenovo System • Adobe® Reade • Windows Live® • Microsoft® Office 	cations ⁵ ecovery TM Solution TM Productivity Center System Update Power Manager Scan® Plus us definitions) n Toolbox r® Toolbar the 2007 Trial (60-day) ® Business Edition (DVD±RW)	Accessories 1GB PC2-6400 DDR2 U 2GB PC2-6400 DDR2 U 250GB SATA 3.0Gb/s D 500GB SATA 3.0Gb/s D 1TB SATA 3.0Gb/s Disk Super Multi-Burner DL I Blu-ray™ Burner SATA 1 DisplayPort to Single-lin ADD2 DVI-D Monitor Cc ATI™ Radeon™ HD 347t NVIDIA® GeForce® 950t NVIDIA Quadro® 256ME More accessories on O- Acc Guide in pdf lenovo Other accessories at ler	DIMM sk (7200 rpm) sk (7200 rpm) (7200 rpm) VD±RW SATA D .5Gb/s Drive k DVI-D Cable nnection (HDCP 0 256MB (DP, VG 0GT 512MB (DP, WVS 290 M58E sheet .com/accessorie	45K1675 45J7915) 43R1985 6A) 45K1636 DVI)45K1635 43R1765 esguide	→ 1-year pal → Internatio → Customer parts only for select Mon - Fri next busir → Onsite se (in eligible • 1-year le (ThinkP) • 2-year le (ThinkP) • 3-year le (ThinkP)	nal Warr Replact (abor anty Sereable Un mited on 3, 8 am - e exclude respon grade op non): 4 hour number 4 Next Bu number 4 Ne	vice ⁹ it (CRL site se 5 pm, ing hol se time otions respon 41C91 siness 1C9190 siness 1C9190 respon 1C9190 siness 1C9180 respon	lidays, e) se 89) s Day 7) se 0) s Day 8) s Day 1)

	Slot x		L2			SATA	2nd Disk	SATA			Global	Avail	
Name Type-model	bay Processor	GHz		Cores	Memory ⁸	disk	Bay	optica	I Graphics	Preload	Educ	date	
M58e 7298-C5U M58e 7298-C6U	4x4 Pentium E5200 4x4 Pentium E5300 4x4 Pentium E5300 4x4 Core 2 Duo E7400 4x4 Core 2 Duo E7500 4x4 Core 2 Duo E8400 4x4 Core 2 Duo E8400 4x4 Core 2 Duo E8400 4x4 Core 2 Duo E8500 4x4 Core 2 Duo E8500 4x4 Core 2 Duo E8500 4x4 Core 2 Quad Q8200 4x4 Core 2 Quad Q9400 • These models have a 3-	2.66	2MB 2MB 2MB 3MB 3MB 3MB 6MB 6MB 6MB 6MB 6MB 6MB	2 2 2 2 2 2 2 2 2 2 4 4 4	1GB 1GB 2GB 2GB 2GB 2GB 1GB 2GB 2GB 2GB 2GB 2GB 2GB	160GB ² 160GB 250GB 160GB 160GB 160GB 160GB 250GB 250GB 250GB 250GB	None None None None None None None None	DVD DVD DVD±RI	GMA W GMA	XP Pro XP Pro	Educ	Apr 09 Apr 09	
Positioning Processor	Mainstream enterprise state Intel® Pentium® Process 800MHz system bus, and Intel Core™ 2 Duo Proces 1066MHz system bus, and Intel Core 2 Duo Proces 1333MHz system bus, and Intel Core 2 Quad Proces 1333MHz system bus, and Intel Core 2 Quad Proces 1333MHz system bus, and Intel Core 2 Quad Proces 1333MHz system bus, and Intel Core 2 Quad Proces 1333MHz system bus, and Intel Core 2 Quad Proces 1333MHz system bus, and Intel Core 2 Quad Proces 1333MHz system bus, and Intel® Core 2 Quad Proces 133	or E520 2MB L2 ssor E7 I 3MB L sor E84 I 6MB L ssor Q8 I 4MB L ssor Q9 I 6MB L	or E53 cache of 400 or I 2 cache 00 or E8 2 cache 200 with 2 cache 400 with 2 cache	BOO with Dr E7500 or B500 wor quad	h dual-co with dual ith dual-core, l-core,	l-core, core,	• 6.9" W X • 175mm • 24.7 lb • Handle • Toolless • Toolless optical of	X 17.3" D W X 440 (11.2 kg) on top from s cover residisk, disk drive rem	emoval skette drive,	2mm H	optica ② ③ disk	al	
Implementation Memory	Processor in FC-LGA6 or 1GB or 2GB std, 4GB ma non-parity, dual-channel co Non-italics: standard men	x ⁸ , PC2 - apable,	-6400 80 two 240	00MHz -pin DI	DDR2, MM sock	ets;	Bay ① 5. Bay ② 5. Bay ③ 3. Bay ④ 3.	25", 1.6" 5", 1" h		s, oper	reader/	diskette)	
Graphics	integrated graphics in G41 (up to 512MB [1GB model one analog VGA DB-15 co	ccelerator X4500 (GMA X4500), Slot 1: h 11, uses main memory els], 1GB [2GB models]), Slot 3: h						lf-length, lf-length,	length, full-height, PCI Express x16 (75w m length, full-height, PCI Express x1 length, full-height, 32-bit PCI 2.3 length, full-height, 32-bit PCI 2.3				
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	160GB or 250GB, SATA 3 Serial ATA, SATA 3.0Gb/s, Some: DVD-ROM DL SAT Some: Super Multi-Burnet Two SATA cables (each 1-None None None	.0Gb/s 7 integrat A 1.5Gb DL DV	7200 rpr ed in IC o/s 16-4 D±RW S	n, vibra H7 8X Ma: SATA 1	ation dam x ⁴ Drive .5Gb/s D	pening mo		• F	One lock to sentire system Padlock loc Security slo Kensington Power-on pa	n to fixed on to fin rear of (in reas of (h cover a bbject: for opt pa for option ver® cabl	adlock) al	
Chipset	Intel G41 Express Chipse I/O Controller Hub 7 [ICH7 LPC bus)] (SATA	3.0Gb/s	s, PCÍ	Express			• E	Hard disk password Boot sequence control Boot without keyboard, mouse, diske Serial port I/O control				
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphone Four USB 2.0, serial (9-pir ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lir High Definition (HD) Audio	n), parali (VGA DI ne-out (s , Realte	lel (25-p B-15) stereo, 3 k® ALC	in), ke 3.5mm)	yboard (F , microph	2S/2), mou	ıse (PS/2),	٠١	Parallel port JSB port dis pports Think	ablement		gies	
Speaker IEEE 1394 Ethernet Intel AMT	One internal speaker for b None Gigabit ethernet on planar None			057, W	/ake on L	AN®			REENGUAR HS-complia		d		
(preinstalled vi Windows Vista Preloaded appli • Some: Educat	Optical Wheel Mouse (US) 280 watts with variable spectating system ²⁰ ows XP Professional a downgrade rights in Business) cations ⁵ (only some listed) ion software	Accessories 1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Cb/s Disk (7200 rpm) 45 17019							3-year parts Internationa Customer F parts only for selected Mon - Fri conext busine Onsite serv (in eligible I • 3-year LC (ThinkPlus	al Warrant Replaceabl with limite I parts³, 8 overage ex ss day res ice upgrad locations): DR 9x5, 4 h s™ part nu	y Service le Unit (C ed onsite am - 5 pm coluding h sponse tii de option 7 nour responder 41C	RU) service i, nolidays, ne) s onse 9192)	
- Adobe® Elem - Photoshop - Premiere E • Rescue and R • McAfee® Virus • Microsoft® Offi • Roxio® Creator (DVD±RW) • Roxio MyDVD®	Elements 7 lements 7 ecovery™ Scan® Plus (30-day) ce 2007 Trial (60-day) ® Business Edition	Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 43R1765 More accessories on O-M58E sheet Acc Guide in pdf Ienovo.com/accessoriesguide Other accessories at Ienovo.com/accessories							 4-year LC 	s part num OR 24x7, 4 s part num CPlus serv Othinkplus/ Oty mainte ailable day ¹⁴ toll- warranty p	ber 41C9 ⁻ hour respect of the ser 41C9 ⁻ ices at warranty nance	195) ponse 196)	

Name Type-model	Slot x bay Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Global Educ	Avai date
M58e 7298-H9U M58e 7298-H6U M58e 7298-H8U M58e 7298-H7U	4x4 Pentium E5300 4x4 Core 2 Duo E7500 4x4 Core 2 Duo E7500 4x4 Core 2 Duo E7500	2.60 2.93 2.93 2.93	2MB 3MB 3MB 3MB	2 2 2 2	2GB 1GB 2GB 2GB	160GB ² 160GB 160GB 250GB		DVD±RW DVD DVD±RW DVD±RW	GMA GMA GMA	XP Pro XP Pro XP Pro XP Pro	Educ Educ	Jul 0 Jul 0 Jul 0 Jul 0
	These models have a 3	3-year lim	ited wa	arranty ¹								
Positioning Processor Implementation	Mainstream enterprise st Intel® Pentium® Process 800MHz system bus, and Intel Core™ 2 Duo Proce 1066MHz system bus, an Processor in FC-LGA6 or	or É530 0 I 2MB L2 essor E7 Id 3MB L1	0 with c cache 500 wit 2 cache	dual-co or th dual	ore, -core,	ocket	• 6.9" W 2 • 175mm • 24.7 lb	ss black co X 17.3" D X W X 440m (11.2 kg) ir on top fror	(15.8" H m D X 40 max conf	2mm H	optica ② ③ disk	al
Memory	1GB or 2GB std , 4GB manon-parity, dual-channel of <i>Non-italics:</i> standard me	capable, t	wo 240)-pin D	IMM socke		Toolless optical of	s cover rem s disk, disk drive remov	ette drive, val			0
Graphics	Intel Graphics Media Ac integrated graphics in G4 (up to 512MB [1GB mode one analog VGA DB-15 c supports dual independe	1, uses n els], 1GB connector	nain me <i>[2GB n</i> , Direct	emory modelsj X® 10,),	apter	Bay ① 5. Bay ② 5. Bay ③ 3.	adapter ro 25", 1.6" h 25", 1.6" h 5", 1" hig 5", 1" hig	igh, acces igh, acces h, acces	ss, opei	n (reader/	diskett
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables	160GB or 250GB, SATA 3 Serial ATA, SATA 3.0Gb/s Some: DVD-ROM DL SA Some: Super Multi-Burne Two SATA cables (each 1	s, integrat TA 1.5Gb er DL DVI	ed in IC s/s 16-4 D±RW	CH7 I8X Ma SATA 1	x ⁴ Drive .5Gb/s Dr	ive	Slot 1: ha Slot 2: ha Slot 3: ha	If-length,fu If-length,fu If-length,fu If-length,fu	ıll-height, ıll-height, ıll-height,	PCI Expre PCI Expre 32-bit PCI	ess x16 (7: ess x1 2.3	5w ma
eSATA port Diskette drive Media reader	None None None			@ · -:					ne lock to s tire systen		th cover a	nd
Chipset	Intel G41 Express Chips I/O Controller Hub 7 [ICH LPC bus)	B, USB,	- F	Padlock loop (in rear for opt pa Security slot (in rear for optional Kensington® MicroSaver® cable Power-on password								
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Four USB 2.0, serial (9-p ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), I High Definition (HD) Audi One internal speaker for I None	line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) dio, Realtek® ALC662 codec							Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, dis Serial port I/O control Parallel port I/O control USB port disablement			
Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable sp	SB cònne	ctor), 4	iqb 00.	black. Le			Supp	oorts Think	«Vantage®	technolog	gies
	ows® XP Professional		C2-640		2 UDIMM		41U2	₉₇₇ RoH	ENGUAR S-complia		ed	
Windows Vista Preloaded appli Some: Educat - VitalSource L - Adobe® Elem - Photoshop - Premiere E Rescue and R C Client Security ThinkVantage ThinkVantage McAfee® Virus (30 days of viru Lenovo Systen Adobe Reader Windows Live¹ Microsoft® Offie Roxio® Creator (DVD±RW) Roxio MyDVD®	cations ⁵ ion software ibrary School Edition ents Elements 7 lements 8 lements 9 leme	250GB 500GB 1TB SA DVD-R Super I Blu-ray Display ADD2 ATI TM F NVIDIA NVIDIA More a	SATA:	3.0Gb/s 3.0Gb/s 0Gb/s D SATA urner Ener SAT o Single Monitor ™ HD 3 orce® 9 ro® 256 ories on	DL DVD±R A 1.5Gb/s -link DVI-I Connection 3470 256M	00 rpm) rpm) 6X-48X M W SATA E D Cable on (HDCF IB (DP, VC 2MB (DP, 290 sheet accessorie	GA) 45K1 DVI)45K1 43R1 esguide	015 990 990 618 618 620 675 915 N 985 636 635 765 ••••••••••••••••••••••••••••••••••	year parts ternations testomer F arts only (or selectec ton - Fri co ext busine testomer Fri co ext busine testomer Fri co ext busine testomer Sayear LO (ThinkPlu thinkPlu thinkPlu thyear LO (ThinkPlu thyear LO thinkPlu thyear LO thinkPlu thyear LO thinkPlu thyear LO	al Warrant Replaceab (with limite It parts³, 8 boverage ex ess day re- vice upgra- locations) DR 9x5, 4 It s™ part num DR 9x5, Ne s part num DR 9x5, Ne s part num DR 9x1, um DR 9x4x7, 4 s part num dR 9x5, Ne s part num	y Service le Unit (Cle on site : am - 5 pm celuding h sponse tin de option: '?' nour respirate 41C91 ext Busine ber 41C91 hour respiber 41C91 thour respiber 41C91 t warranty en ance	RU) service l, acoliday ne) s onse 9192) oonse 193) oss Day 194) onse 195) oonse

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Preload	Global Educ	Avail date
	7298-N1U		Pentium E6300	2.80	2MB	2	1GB	250GB ²	None	DVD	GMA	XP Pro		Oct 09
M58e	7298-N2U	4x4	Pentium E6300	2.80	2MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro		Oct 09
	7298-N3U		Pentium E6300	2.80	2MB	2	2GB	250GB	None	DVD±RW	GMA	XP Pro	Educ	Oct 09
M58e	7298-M9U	4x4	Core 2 Quad Q8400	2.66	4MB	4	2GB	250GB	None	DVD±RW	GMA	XP Pro		Oct 09

• These models have a 3-year limited warranty

		ı				
Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core, Virtualization Technology, 1333MHz system bus, and 4MB L2 cache Processor in LGA775 socket	• 6.9" W X 17 • 175mm W > • 24.7 lb (11.3 • Handle on t • Toolless cov	ver removal			
Memory	1GB or 2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2 , non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; one socket available	Toolless disk, diskette drive, optical drive removal Toolless adapter retention				
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter	Bay @ 5.25", Bay @ 3.5", Bay @ 3.5", Slot 1: half-le	1.6" high, access, open 1.6" high, access, open (reader/diskette) 1" high, access, open (reader/diskette) 1" high, no access, std disk ngth,full-height, PCI Express x16 (75w max) ngth,full-height, PCI Express x1			
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors on None None	gth, full-height, 32-bit PCI 2.3 ngth, full-height, 32-bit PCI 2.3 Security One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock)				
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 LPC bus)	B, USB,	Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Administrator password			
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5i Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mou ethernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stere High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None	ise (PS/2),	Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement			
Modem Security chip	None None		Supports ThinkVantage® technologies			
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenc Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, manual switch		GREENGUARD® certified RoHS-compliant			
Preloaded oper	,		Limited Warranty¹			

Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional

Preloaded applications⁵ (only some listed)

- Some: Education software
- VitalSource Library School Edition
- Adobe® Elements
- Photoshop Elements 7 Premiere Elements 7
- Rescue and Recovery™
- Client Security Solution™
 ThinkVantage Productivity Center
 ThinkVantage System Update
 ThinkVantage Power Manager
 McAfee® VirusScan® Plus

- (30 days of virus definitions) Lenovo System Toolbox
- Adobe Reader®
- Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day) Roxio® Creator® Business Edition (DVD+RW)
- Roxio MyDVD® (DVD±RW)
 Corel® WinDVD® (DVD, DVD±RW)

1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Super Multi-Burner DL DVDTTNV SAIA DIVE 1130000
Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675
DisplayPort™ to Single-link DVI-D Cable 45J7915
ADD2 DVI-D Monitor Connection (HDCP) 43R1985
ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636
NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635
NVIDIA Quadro® 256MB NVS 290 43R1765 More accessories on O-M58E sheet

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

- International Warranty Service9
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period1 via 800-426-7378

	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
M58e 7298-Q1U	4x4	Pentium E6300	2.80	2MB	2	2GB	250GB ²	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e 7298-Q2U	4x4	Core 2 Duo E7500	2.93	3MB	2	2GB	250GB	None	DVD±RW	GMA	Pro 32	None	Jan 10
M58e 7298-Q3U	4x4	Core 2 Duo E8400	3.00	6MB	2	2GB	250GB	None	DVD±RW	GMA	Pro 32	None	Jan 10

These models have a 3-year limited warranty¹

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® Processor E6300 with dual-core, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Duo Processor E8400 with dual-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	• 6.9" W X 17 • 175mm W > • 24.7 lb (11.3 • Handle on t • Toolless cov			
Memory	2GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; Non-italics: standard memory in one socket; one socket available	Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/di Bay ④ 3.5", 1" high, no access, std disk			
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 765MB), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter				
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connectors None	Slot 2: half-le Slot 3: half-le	ngth,full-height, PCI Express x16 (75w max) ngth,full-height, PCI Express x1 ngth,full-height, 32-bit PCI 2.3 ngth,full-height, 32-bit PCI 2.3 Security		
Diskette drive Media reader	None None		One lock to secure both cover and		
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 LPC bus)	B, USB,	entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable)		
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouethernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereon High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None None	ise (PS/2), eo, 3.5mm)	Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement		
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, manual switch		Supports ThinkVantage® technologies		
Preloaded oper	rating system ²⁰ Accessories		GREENGUARD® certified		

- Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Lenovo Online Data Backup
- Norton™ Internet Security 2009 (30 days of virus definitions)
- Àdobe® Reader®
- Adobe Flash® Player Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)

1GB PC2-6400 DDR2 UDIMM

2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 43R1990 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620
Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort™ to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI[™] Radeon[™] HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635

NVIDIA Quadro® 256MB NVS 290 More accessories on O-M58E sheet

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

RoHS-compliant

Limited Warranty¹

3-year parts and labor

41U2977

43R1765

- International Warranty Service9
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at
- lenovo.com/thinkplus/warranty Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period1 via 800-426-7378

Name Type-model	Slot x bay Processor	L2 GHz cache Cores Memory ⁸	SATA 2nd Disk SATA disk Bay optical	ENERGY Global Avail Graphics STAR 5.0 Preload Educ date			
M58e 7847-A5U	4x4 Pentium E6300 4x4 Pentium E6300 4x4 Core 2 Duo E7500 4x4 Core 2 Duo E8400 4x4 Core 2 Quad Q9400	2.80 2MB 2 2GB 2.93 3MB 2 2GB 3.00 6MB 2 2GB	250GB ² None DVD 250GB None DVD±RW 250GB None DVD±RW 250GB None DVD±RW 320GB None DVD±RW	GMA ES50 XP Pro None Oct 09 GMA ES50 XP Pro None Oct 09			
	These models have a 3-	-year limited warranty ¹					
Positioning Processor	Mainstream enterprise state Intel® Pentium® Process Virtualization Technology, and 2MB L2 cache or Intel Core™ 2 Duo Proces Virtualization Technology, and 3MB L2 cache or Intel Core 2 Duo Process Virtualization Technology, and 6MB L2 cache or Intel Core 2 Quad Proces Virtualization Technology, and 6MB L2 cache Processor in LGA775 soci	ck color; metal case 2" D X 15.8" H 440mm D X 402mm H kg) in max configuration of front of removal diskette drive, emoval oter retention 6" high, access, std optical 6" high, access, open " high, access, open " high, access, open (reader/diskette)					
Memory	non-parity, dual-channel c Italics: standard mer Non-italics: standard mer	GB max ⁸ , PC2-6400 800MHz apable, two 240-pin DIMM somory in both sockets; no socketory in one socket; one socketory in one socket; one socketory X4500 (GMA X4500)	DDR2, ckets; ets avail; et available Bay ⊕ 3.5", Slot 1: half-le: Slot 2: half-le: Slot 3: half-le:	1" high, no access, std disk ngth, full-height, PCI Express x16 (75w max) ngth, full-height, PCI Express x1 ngth, full-height, 32-bit PCI 2.3			
Спартно	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB or 3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter Slot 4: half-length, full-height, 32-bit PCI 2.3 Security One lock to secure both cover and entire system to fixed object:						
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB or 320GB, SATA 3 Serial ATA, SATA 3.0Gb/s, Some: DVD-ROM DL SAT Some: Super Multi-Burne Two SATA cables (each 1- None None None	- Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password - Boot sequence control - Boot without keyboard, mouse, diskette					
Chipset	Intel G41 Express Chips I/O Controller Hub 7 [ICH7 LPC bus)	et (PCI Express® x16), 7] (SATA 3.0Gb/s, PCI Express	s x1, PCI 2.3, USB,	Serial port I/O control Parallel port I/O control USB port disablement			
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT	Four USB 2.0, serial (9-pin ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lin High Definition (HD) Audio One internal speaker for b None Gigabit ethernet on plana	ne-out (stereo, 3.5mm), micro o, Realtek® ALC662 codec	(PS/2), mouse (PS/2), phone (stereo, 3.5mm)	Supports ThinkVantage® technologies Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant			
Modem Security chip	None None None			Limited Warranty ¹			
Keyboard Mouse Power supply	Optical Wheel Mouse (US	ard (USB connector), 104-key B connector), 400 dpi, black, eed fan, autosensing, 85% PS	Lenovo logo	 ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service 			
through downg Windows 7 Prindows 7 PrinkVantage 9 ThinkVantage 1 ThinkVantage 1 ThinkVantage 1 ThinkVantage 2 McAfee® Virus (30 days of virus (30 days of virus Lenovo System 1 Adobe® Reade Windows Live 1 Microsoft® Offi 1 Roxio® Creato (DVD±RW) 1 Roxio MyDVD	Professional preinstalled grade rights in Genuine ofessional cations ⁵ (only some listed) ecovery TM 'Solution TM Productivity Center System Update Power Manager Scan® Plus us definitions) in Toolbox er® Toolbar ce 2007 Trial (60-day) ® Business Edition	Accessories 1GB PC2-6400 DDR2 UDIM 2GB PC2-6400 DDR2 UDIM 250GB SATA 3.0Gb/s Disk (** 500GB SATA 3.0Gb/s Disk (** 1TB SATA 3.0Gb/s Disk (** 1TB SATA 3.0Gb/s Disk (** 0VD-ROM DL SATA 1.5Gb/s Super Multi-Burner DL DVD: Blu-ray™ Burner SATA 1.5Gb/s Super Multi-Burner DL DVD: Blu-ray™ Connet Single-link II ADD2 DVI-D Monitor Connet ATI™ Radeon™ HD 3470 250 NVIDIA® GeForce® 9500GT NVIDIA® Quadro® 256MB NV More accessories on O-M58 Acc Guide in pdf lenovo.cor Other accessories at lenovo	M	for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			

Slot x	L2			SATA	2nd Disk	SATA		Vista	Vista	Global (G) Avail
Name Type-model bay Processor	GHz cach	e Cores	Memory	disk	Bay	optical	Graphics	preload	logo	GMP (P)	date
M58e 7307-A1U 4x4 Core 2 Duo E8400	3.00 6MB	2	2GB	160GB ²	None	DVD±RW	GMA	Business32	Basic	GΡ	Apr 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Mainstream enterprise sta Intel® Core™ 2 Duo Proc Virtualization Technology, and 6MB L2 cache Processor in FC-LGA8 pa	essor E8400 with dual-core, TXT, 1333MHz system bus,	Tower Business black color; metal case 6.9" W X 17.3" D X 15.8" H 175mm W X 440mm D X 402mm H 24.7 lb (11.2 kg) in max configuration Handle on top front Toolless cover removal Toolless disk, diskette drive, optical drive removal			
Memory	2GB std, 4GB max ⁸ , PC2 non-parity, dual-channel of					
Graphics	Intel Graphics Media Ac integrated graphics in G4 one analog VGA DB-15 co supports dual independer	optical drive removal Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open				
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	160GB, SATA 3.0Gb/s 72 Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV Two SATA cables (each 1- None None None	Bay ③ 3.5", 1" high, access, open (reader/diskette Bay ④ 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCI Express x16 (75w max Slot 2: half-length,full-height, PCI Express x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3				
Chipset Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3, ULPC bus)				Security One lock to secure both cover and entire system to fixed object:		
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip Keyboard Mouse	Two USB 2.0, microphone Four USB 2.0, serial (9-pi ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for box None Gigabit ethernet on plana None None Preferred Pro USB Keybo Optical Whole Mayor (HS	use (PS/2), eo, 3.5mm)	- Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password - Boot sequence control - Boot without keyboard, mouse, diskette - Serial port I/O control - Parallel port I/O control - USB port disablement			
Power supply	280 watts with variable sp	B connector), 400 dpi, black, Lenovo logo eed fan, manual switch		Conserva Third Manhaga® to also also size		
Preloaded oper - Genuine Wind Preloaded appl • Rescue and R	ows® Vista® Business 32 ications⁵	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 250GB SATA 3.0Gb/s Disk (7200 rpm)	41U2977 41U2978 41N3015	Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant		
 Client Security ThinkVantage ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Windows Live Microsoft® Offi 	r Solutión™ Productivity Center System Update Power Manager Scan® Plus us definitions) m Toolbox er® ™ Toolbar ice 2007 Trial (60-day) r® Business Edition	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I Blu-ray™ Burner SATA 1.5Gb/s Drive DisplayPort to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® GeForce® 9500GT 512MB (DP, NVIDIA Quadro® 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessoriother a	45K1675 45J7915 9) 43R1985 6A) 45K1636 DVI)45K1635 43R1765 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 - 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		

Slot x Name Type-model bay Processor	GHz	L2 cache C	ores	Memory ⁸	SATA disk	2nd Disk Bay		Graphics	ENERGY STAR 5.0		Global (G) GMP (P)	
M58e 7843-A1U 4x4 Core 2 Duo E8400	3.00	6MB	2	2GB	250GB ²	None	DVD±RW	GMA	ES50	Pro 32	GΡ	Oct 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor Implementation Memory	Virtualization Technology, and 6MB L2 cache Processor in LGA775 soci 2GB std, 4GB max ⁸ , PC2- non-parity, dual-channel co	essor E8400 with dual-core, TXT, 1333MHz system bus, ket -6400 800MHz DDR2, apable, two 240-pin DIMM sockets;	• 6.9" W X 17 • 175mm W X • 24.7 lb (11.2 • Handle on to • Toolless cov	ver removal
Graphics	Intel Graphics Media Accintegrated graphics in G41 one analog VGA DB-15 co	mory in one socket; one socket available celerator X4500 (GMA X4500), , uses main memory (up to 765MB), onnector, DirectX® 10, t display with optional ADD2 adapter	optical drive • Toolless ada Bay ① 5.25",	
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	TA controller TA DVD±RW TA DVD±RW Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive TWO SATA cables (each 1-drop to device), four SATA connectors None Rkette drive None			1" high, access, open (reader/diskette) 1" high, access, open (reader/diskette) 1" high, no access, std disk ngth,full-height, PCI Express x16 (75w max) ngth,full-height, PCI Express x1 ngth,full-height, 32-bit PCI 2.3 ngth,full-height, 32-bit PCI 2.3
Chipset	Intel G41 Express Chips I/O Controller Hub 7 [ICH7 LPC bus)	3, USB,	Security One lock to secure both cover and entire system to fixed object:	
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone Four USB 2.0, serial (9-pin ethernet (RJ-45), monitor Line-in (stereo, 3.5mm), lir High Definition (HD) Audic One internal speaker for b None Gigabit ethernet on planar None None None	- Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password - Boot sequence control - Boot without keyboard, mouse, disk - Serial port I/O control - Parallel port I/O control - USB port disablement		
Keyboard Mouse Power supply	Optical Wheel Mouse (US	ard (USB connector), 104-key, black, Len B connector), 400 dpi, black, Lenovo logo eed fan, autosensing, 85% PSU		Supports ThinkVantage® technologies
	ows® 7 Professional 32 ications⁵ (only some listed) ecovery™	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm)	41U2977 41U2978 41N3015 43R1990	Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
 ThinkVantage ThinkVantage ThinkVantage Lenovo Online Norton™ Interi (30 days of vir Adobe® Reade Adobe Flash® Skype™ for Wi Microsoft® Offi 	System Update Power Manager Toolbox • Data Backup net Security 2009 us definitions) er® Player indows ce 2007 Trial (60-day) r® Business Edition	1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I Blu-ray™ Burner SATA 1.5Gb/s Drive DisplayPort™ to Single-link DVI-D Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® GeForce® 9500GT 512MB (DP, NVIDIA Quadro® 256MB NVS 290 More accessories on O-M58E sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	45K1675 45J7915 9) 43R1985 GA) 45K1636 DVI)45K1635 43R1765 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 - 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

ThinkCentre® M58e Accessories

Partial list of accessories supported on ThinkCentre M58e

Memory

1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Optical

All:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max⁴ 41N5618 ann 09/26/06 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ann 09/26/06

*Tower 7268/7270/7298/7491/7307/7508/7847/7843/7258 support:*Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 *ann 03/31/09*

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918	ann 08/19/08
USB 2.0 Essential Memory Key 4GB USB 2.0 Essential Memory Key 8GB USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 1GB USB 2.0 Ultra Secure Memory Key 2GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Portable 320GB Hard Disk USB 2.0 Portable 500GB Hard Disk USB 2.0 Portable Secure 160GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Secure 500GB Hard Drive USB 2.0 Super Multi-Burner Drive USB 2.0 Portable DVD Burner	45J7904 45J7905 45K1258 45J5915 45J5916 45J5917 45J5918 45K1689 45K1690 43R2018 43R2019 57Y4400 41N5565 43N3264	ann 06/24/08 ann 07/15/08 ann 10/28/08 ann 08/26/08 ann 08/26/08 ann 08/26/08 ann 03/17/09 ann 05/26/09 ann 11/18/08 ann 11/18/08 ann 01/07/10 ann 01/23/07 ann 01/05/10

Graphics

Småll 7269/7279/7303/7506/7408/7514/7259 support Low Profile 35 watts max:

 Walts Hax.

 DisplayPort™ to Single-link DVI-D Cable⁵⁵
 45J7915
 ann 08/05/08

 ADD2 DVI-D Monitor Connection (HDCP)
 43R1985
 ann 11/06/07

 ATI™ Radeon™ HD 3470 256MB (DP, VGA)
 45K1636
 ann 11/18/08

 NVIDIA® Quadro® 256MB NVS 290
 43R1765
 ann 12/18/07

 NVIDIA Quadro 256MB FX 370 Low-Profile
 55Y9275
 ann 07/28/09

 NVIDIA GeForce® 310 DMS59(2-DVI, 2-VGA) 57Y4167
 ann 03/02/10

Tower 7268/7270/7298/7491/7307/7508/7847/7843/7258 support 75 watts max:

DisplayPort to Single-link DVI-D Cable⁵⁰ 45J7915 ann 08/05/08 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ann 11/06/07 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 ann 11/18/08 NVIDIA Quadro 256MB NVS 290 43R1765 ann 12/18/08 NVIDIA GeForce 9500GT 512MB (DP, DVI) 45K1635 ann 12/18/08 NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA) 57Y4167 ann 03/02/10 50 Attaches to the ThinkCentre compatible DisplayPort graphics card.

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard
Preferred Pro Full Size PS/2 Keyboard
Enhanced Performance USB Keyboard
Ultraslim Wireless Keyboard and Mouse⁵²
Lenovo USB Fingerprint Keyboard
Sew Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Opitical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock56	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock56	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06
56 Attaching to any form factor not only sec	ures the Thi	inkCentre to
the work area, but it also prevents users	from openir	ng the chassis
itself.	- 1	•

Monitors

MOINTOIS		
ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09						
ThinkVision USB Soundbar	40Y7616	ann 08/23/05						
ThinkVision Soundbar	45K1263	ann 09/16/08						
Kensington MicroSaver Cable Lock56	73P2582	ann 12/29/03						
Kensington Twin Head Cable Lock56	45K1620	ann 09/30/08						
Radial Arm	19K4464	ann 05/05/00						
⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.								

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit: www.lenovo.com/support/accessories www.lenovo.com/support/desktopaccessories www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide







Lenovo ThinkCentre M58 Eco Ultra Small

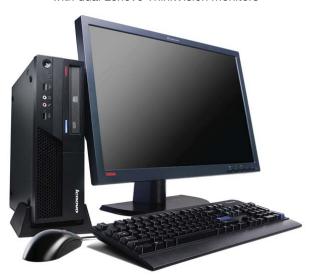


Lenovo ThinkCentre M58 Eco Ultra Small with dual Lenovo ThinkVision monitors





Lenovo ThinkCentre M58 Small



Lenovo ThinkCentre M58 Small with Lenovo ThinkVision monitor





Lenovo ThinkCentre M58 Tower



Lenovo ThinkCentre M58 Tower with dual Lenovo ThinkVision monitors

ThinkCentre® M58 Eco Ultra Small (8820) - TopS (XP with Win 7 License)

Personal Systems Reference (PSREF)

SATA SATA Monitor DisplayPort ENERGY Intel Slot x Global Avail optical Graphics Name Type-model bay Processor GHz Cores Memory⁸ STAR 5.0 vPro Preload Educ disk conn dongle date 2 M58 8820-ANU 1x2 Core 2 Duo E7500 2.93 2GB 250GB² DVD±RW GMA VGA, DP ES50 None XP Pro None Nov 09 None

- This small and medium business (SMB) model is part of the US TopSeller™ Program
- This model has a 3-year limited warranty

Positioning Processor Implementation			Eco Ultra Si	optical disk				
Memory	dual-channel capable, two	8500 1066MHz DDR3, non-parity, 204-pin SODIMM sockets (notebook); ory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 10.8" W X 9.4" D X 3.1" H • 275mm W X 238mm D X 80mm H • 9.2 lb (4.2 kg) in maximum configuration • Hinged toolless cover for easy serviceability • Toolless disk and optical drive removal • Toolless systemboard retention • System floor stand for vertical orientation					
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	elerator 4500 (GMA 4500), , uses main memory (up to 1GB), nnector, one DisplayPort™ connector via cable 45J7915), HDCP, DirectX® 10, display						
SATA disk SATA controller SATA DVD±RW SATA cables	Serial ÁTA, SATA 3.0Gb/s, Super Multi-Burner DL DV	10 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 support D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors on planar.						
eSATA port Diskette drive Media reader	None None None	on planal		Security Security chip (see information on left) Security slot (in rear for attachment of				
Chipset	Digital Office [ICH10D0] (et (PCI Express [®] 2.0 x16), I/O Controller H SATA 3.0Gb/s with RAID 0/1 support, PCI BB, LPC bus), SMSC [®] SCH5617 Super I/C	Express x1,	optional Kensington® MicroSaver® cable - security slot and cover release buttor are combined into one latch for improved chassis security				
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) nnector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) High Definition (HD) Audio, Analog Devices AD1882 codec One internal speaker for business audio Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0 None None							
Keyboard Mouse	Preferred Pro USB Keyboa Optical Wheel Mouse (USB	vo® logo	Supports ThinkVantage® technologies					
Preloaded operating system ²⁰ - Windows® XP Professional preinstalled through downgrade rights in Genuine		30 watts, autosensing, 87% PSU Accessories 1GB PC3-8500 DDR3 SODIMM (notebook) 3CR PC3-8500 DDR3 SODIMM (notebook)		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant				
		2GB PC3-8500 DDR3 SODIMM (noteboo 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm)	ok) 43R1988 43R1990 45J7918					

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Client Security Solution™
- ThinkVantage Productivity Center
- ThinkVantage System Update McAfee® VirusScan® Plus
- (30 days of virus definitions)
- Lenovo System Toolbox
- Adobe® Reader®
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II 45,17915 57Y4393 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M58 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service9
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options
- - (in eligible locations):⁷
 3-year LOR 9x5, 4 hour response
 (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at
- lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x Name Type-model bay	Processor	GHz	Cores	Memory	SATA 8 disk	SATA optical	Graphics		DisplayPort dongle	ENERGY STAR 5.			Global Educ	Avail date
MEG 9920 AOLI 1v2	Coro 2 Duo E7500	2 02	2	2CB	250CB		/ GMA	VGA D	D Mono	E950	Mono	Dro 22	Mono	lan 10

- This small and medium business (SMB) model is part of the US TopSeller™ Program
- This model has a 3-year limited warranty¹

Positioning Processor Implementation			Eco Ultra Sr	optical disk					
Memory	2GB std, 4GB max ⁸ , PC3-dual-channel capable, two	8500 1066MHz DDR3, non-parity, 204-pin SODIMM sockets (notebook); ory in one socket; one socket available		1.6" high, access, std optical 1" high, no access, std disk					
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	elerator 4500 (GMA 4500), , uses main memory (up to 765MB), nnector, one DisplayPort™ connector via cable 45J7915), HDCP, DirectX® 10, display	Slot 1: Low Profile, 32-bit PCI 2.3 Business black color; metal case 10.8" W X 9.4" D X 3.1" H 275mm W X 238mm D X 80mm H 9.2 lb (4.2 kg) in maximum configuration						
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DVI	drop to device), two SATA connectors	Hinged toolless cover for easy serviceability Toolless disk and optical drive removal Toolless systemboard retention System floor stand for vertical orientation Security						
Media reader Chipset	None Intel Q45 Express Chipse Digital Office [ICH10DO] (6 ethernet MAC, PCI 2.3, US	Express x1,	Security chip (see information on left) Security slot (in rear for attachment o optional Kensington® MicroSaver® cal security slot and cover release butto are combined into one latch for improved chassis security.						
Front ports Rear ports Internal connecto Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, ethernet (RJ- or Two USB 2.0 planar conn (Line-in (stereo, 3.5mm), lin High Definition (HD) Audio. One internal speaker for but Gigabit ethernet on planar, None None	(stereo, 3.5mm), headphone (stereo, 3.5m 45), monitor (VGA DB-15, DisplayPort) (1 used; one open for media reader or 2 re e-out (stereo, 3.5mm), microphone (stereo, Analog Devices AD1882 codec usiness audio Intel 82567LM, Wake on LAN®, ASF2.0, I	Power-on password Administrator password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Individual USB port disablement						
Keyboard Mouse Power supply	Optical Wheel Mouse (USE	urd (USB connector), 104-key, black, Leno B connector), 400 dpi, black, Lenovo logo B watts, autosensing, 87% PSII	vo® logo	Supports ThinkVantage® technologies					
- Genuine Win	rating system ²⁰ dows® 7 Professional 32	30 watts, autosensing, 87% PSU Accessories 1GB PC3-8500 DDR3 SODIMM (notebook 2GB PC3-8500 DDR3 SODIM (notebook 2GB PC3-8500 DDR3 SODIMM (notebook 2GB PC3		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant					
Rescue and I Password Ma ThinkVantage ThinkVantage ThinkVantage Lenovo Onlin Norton™ Inte (30 days of vi Adobe® Reace Adobe Flash Microsoft® Of	e System Update System Update Power Manager Toolbox Data Backup Fret Security 2009 Frus definitions) Frus definitions Frus System Player Frice 2007 Trial (60-day) Frus Business Edition	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA D DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mot More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/access	43R1990 45J7918 9rive 41N5620 45J7915 57Y4393 41R4474 40Y8625 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays next business day response time) Onsite service upgrade options (in eligible locations):² 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9195)					

(ThinkPlus part number 41C9196)

24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

ThinkPlus services at lenovo.com/thinkplus/warranty
 Post warranty maintenance services available

S Name Type-model	lot x bay Processor	GHz Cores Memor	SATA y ⁸ disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro		Global Educ	Ava da
M58 7359-B8U 1 M58 7359-B1U 1 M58 7359-B2U 1 M58 7359-B3U 1 M58 7359-B4U 1	X2 Pentium E5300	2.60 2 2GB 2.80 2 1GB 2.80 2 2GB 2.93 2 1GB 2.93 2 2GB 2.80 2 2GB	160GB 160GB 160GB 160GB	DVD±RW DVD DVD±RW DVD DVD±RW	/ GMA GMA / GMA GMA / GMA	VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP	DP-to-DVI-D DP-to-DVI-D DP-to-DVI-D DP-to-DVI-D DP-to-DVI-D DP-to-DVI-D	ES50 ES50 ES50 ES50	No No No No No	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro Bus32	,	Feb Feb Feb Feb Feb
Positioning Processor	Ultimate security, stabil Intel® Pentium® Proce 800MHz system bus, a Intel Core™ 2 Duo Pro 1066MHz system bus,	lity, and manageal essor E5300 with ond 2MB L2 cache ocessor E7400 or	pility for the dual-core or E7500 w	Э,		Eco Ultra	a Small	ор	tical		disk	
Implementation Memory	Processor in FC-LGA6 1GB or 2GB std, 4GB dual-channel capable, Non-italics: standard n	or FC-LGA8 pack max ⁸ , PC3-8500 1 two 204-pin SODI	age in LO 066MHz MM sock	DDR3, no ets (notebo	n-parity, ook);	Bay ② 3. Slot 1: Lo	25", 1.6" high 5", 1" high, ow Profile, 32	no acc bit PCI 2	ess, s 2.3	std optic std disk	al	
Graphics DP dongle	Intel Graphics Media integrated graphics in (XP Pro models: up to Vista models: up to one analog VGA DB-1! HDCP, DirectX® 10, su Some: DisplayPort to	Accelerator 4500 Q45, uses main mo 512MB [1GB mod 765MB [2GB mod 5 connector, one D poorts dual indepe	(GMA 48 emory els], 1GB els]), visplayPo endent dis	500) , 5 <i>[2GB mo</i> rt™ conne	dels];	• 10.8" W • 275mm • 9.2 lb (• Hinged • Toolles: • Toolles:	ss black color X 9.4" D X 3 W X 238mm 4.2 kg) in max toolless cove s disk and op s systemboar	B.1" H D X 80n ximum co er for eas tical drive rd retentio	nm H onfigu y serv e remo	viceabilit oval	ry	
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	160GB, SATA 3.0Gb/s Serial ATA, SATA 3.0G Some: DVD-ROM DL Some: Super Multi-Bu Two SATA cables (each and one eSATA connect None None	7200 rpm, vibration of the control o	on dampe CH10DO 8X Max ⁴ SATA 1.5	, RĂID 0/1 Drive Gb/s Drive	support		Secu Secu optior - sec are imp Powe	Security Security Security Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cales security slot and cover release but are combined into one latch for improved chassis security Power-on password Administrator password Hard disk password (user and master boots equence control				
Chipset	Intel Q45 Express Ch Digital Office [ICH10D0 ethernet MAC, PCI 2.3	Ö] (SATA 3.0Gb/s ı	with RAID	0 0/1 supp	ort, PCI	Express x	1, Hard Boot					
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphe Six USB 2.0, ethernet Two USB 2.0 planar co Line-in (stereo, 3.5mm High Definition (HD) At One internal speaker for Gigabit ethernet on pla None None Winbond® WPCT200 S	(RJ-45), monitor (\ nn (1 used; one op), line-out (stereo, Idio, Analog Devic or business audio nar, Intel 82567LN	/ĜA DB- ben for m 3.5mm), es AD18 /I, Wake o	15, Display ledia reado microphor 82 codec on LAN®, A	/Port) er or 2 re ne (stere	ear USB po o, 3.5mm) DASH 1.0	• Indivi	Supports ThinkVantage® technologies				
Keyboard Mouse Power supply	Preferred Pro USB Key Optical Wheel Mouse (External AC/DC adapte	USB connector), 4	l00 ďpi, b	lack, Lenc		vo® logo	ENERG	SY STAR NGUARD compliant	§ 5.0- § certi		nt	
downg Vista® - Some: Genuir Busine Vista models: Preloaded appli Rescue and R Client Security ThinkVantage ThinkVantage McAfee® Virus (30 days of virus Lenovo Syster Adobe® Reade Microsoft® Offi Roxio® Creator (DVD±RW) Roxio MyDVD®	ne Windows® XP sional (preinstalled via rade rights in Windows Business) ne Windows Vista ss 32 Vista Premium logo ications⁵ (all OSes) ecovery™ r Solution™ Productivity Center System Update Power Manager (Vista) Scan® Plus us definitions) n Toolbox er® ce 2007 Trial (60-day) ® Business Edition	Accessories 1GB PC3-850 2GB PC3-850 500GB SATA 1TB SATA 3.0 DVD-ROM DI Super Multi-B DisplayPort to DisplayPort to Lenovo Vertio ThinkCentre U More accessor Acc Guide in Other access	3.0Gb/s 3.0Gb/s 0Gb/s Dis SATA 1. urner DL Single-li VGA Mo al PC an Ultra Sma ories on C	SODIMM Disk (7200 rp 5Gb/s 16) DVD±RW ink DVI-D pointor Cabl d Monitor ill Under D D-M58 she	(notebook rpm) (-48X M CASTA D Cable e Stand II resk Mou- et	bk) 43R1: 43R1: 45J79 ax 41N50 45J79 41N5: 45J79 41R4: 41R4: 40Y86	988	Lim ar parts a rnational tomer Re s only (w selected - Fri cov t busines ite service lipear LOF hinkPlus year LOF hinkPlus year LOF hinkPlus year LOF hinkPlus year LOF hinkPlus selvo.com/t t warrant rices avai our x 7 d ng the war 300-426-7	and lawarrantilable any label and lawarrantilable and label any label and label and label and label and label any la	anty Ser able Un inited on , 8 am - e excludi respons grade op nos): ⁷ 4 hour i number 4 Next Bu umber 4 4 hour i umber 4 7, 4 hour umber 4 y abour 1 umber 4 s at us/warra ntenanc	vice ⁹ it (CRI site se 5 pm, ing ho se time otions respor 41C9 ¹⁹ respor 1C919 respor 1C919 respor 1C919 respor 1C919	nse 1192) ponse 13) s Da 14) nse 15) ponse

	Name	Slot x Type-model bay		GHz C	Cores	Memory ⁸	SATA disk	SATA optical	Graphics		DisplayPort dongle	ENERGY STAR 5.0			Global Educ	
	M58	7359-DUU 1x2 I	Pentium E6300	2.80	2	2GB	250GB ²	DVD	GMA	VGA, DP	DP-to-DVI-I	D ES50	No	XP Pro		Oct 09
	M58	7359-DVU 1x2 I	Pentium E6300	2.80	2	2GB	250GB	DVD ±RW	GMA	VGA, DP		ES50	No	XP Pro		Oct 09
><	M58	7359-DWU1x2 I	Pentium E6300	2.80	2	2GB	250GB	DVD ±RW	GMA	VGA, DP	DP-to-DVI-I	D ES50	No	XP Pro	Educ	Oct 09

These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, Intel® Pentium® Process Virtualization Technology, and 2MB L2 cache Processor in LGA775 soc	1066MHz system bus,	Eco Ultra Small optical disk						
Memory	2GB std , 4GB max ⁸ , PC3 dual-channel capable, two	-8500 1066MHz DDR3, non-parity, b 204-pin SODIMM sockets (notebook); nory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3						
Graphics DP dongle	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), 5, uses main memory (up to 1GB), onnector, one DisplayPort™ connector, orts dual independent display gle-link DVI-D Cable	Business black color; metal case 10.8" W X 9.4" D X 3.1" H 275mm W X 238mm D X 80mm H 9.2 lb (4.2 kg) in maximum configuration Hinged toolless cover for easy serviceability Toolless disk and optical drive removal Toolless systemboard retention System floor stand for vertical orientation						
SATA disk SATA controller SATA DVD	Serial ATA, SATA 3.0Gb/s. Some: DVD-ROM DL SA	00 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 TA 1.5Gb/s 16-48X Max ⁴ Drive							
SATA DVD±RW SATA cables eSATA port Diskette drive Media reader		er DL DVD±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors on planar		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - security slot and cover release button					
Chipset	Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/0	Express x1,	are combined into one latch for improved chassis security • Power-on password • Administrator password					
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, ethernet (RJ Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for b Gigabit ethernet on plana None	e (stereo, 3.5mm), headphone (stereo, 3.5 -45), monitor (VGA DB-15, DisplayPort) (1 used; one open for media reader or 2 r ne-out (stereo, 3.5mm), microphone (stereo, Analog Devices AD1882 codec usiness audio r, Intel 82567LM, Wake on LAN®, ASF2.0, eKeeper™ Trusted Platform Module, TCG 1	ear USB ports) eo, 3.5mm) DASH 1.0	Hard disk password (user and master) Boot sequence control					
Keyboard	Preferred Pro USB Keybo	ovo® logo	Supports ThinkVantage® technologies						
Mouse Power supply	Optical Wheel Mouse (US External AC/DC adapter,		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant						
Preloaded opera	ating system ²⁰ Professional preinstalled	ook) 43R1987	GREENGUARD® certified RoHS-compliant						
	rade rights in Genuine	ok) 43R1988 43R1990	Limited Warranty ¹						

Preloaded applications⁵ (only some listed)

- Some: Education software
 VitalSource™ Library School Edition
 Adobe® Elements

 - Photoshop Elements 6Premiere Elements 4
- Rescue and Recovery™
- Client Security Solution™ ThinkVantage Productivity Center
- ThinkVantage System Update
- McAfee® VirusScan® Plus (30 days of virus definitions)
- Lenovo System Toolbox
- Adobe Reader®
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD, DVD±RW)

1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable 45J7915 57Y4393 More accessories on O-M58 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available 24 hour x 7 day14 toll-free support
- during the warranty period via 800-426-7378

Slot x Name Type-model bay Processor GHz Cores Memory 8 disk SATA optical Graphics GM Wonitor Conn DisplayPort ENERGY Intel Win7 Global Avail date

M58 7359-F5U 1x2 Core 2 Duo E7500 2.93 2 2GB 250GB² DVD±RW GMA VGA, DP DP-to-DVI-D ES50 No Pro 32 None Jan 10

• This model has a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability Intel® Core™ 2 Duo Prod 1066MHz system bus, an Processor in LGA775 soo		Eco Ultra Sn	nall	optical disk					
Memory	2GB std, 4GB max ⁸ , PC3 dual-channel capable, two	based 1066MHz DDR3, non-parity, based 204-pin SODIMM sockets (notebook); mory in one socket; one socket available	Bay ① 5.25", Bay ② 3.5",		ccess, std optical o access, std disk					
Graphics DP dongle	integrated graphics in Q4 one analog VGA DB-15 c	celerator 4500 (GMA 4500), 5, uses main memory (up to 765MB), onnector, one DisplayPort™ connector, orts dual independent display DVI-D Cable	 Business bl 10.8" W X 9 275mm W > 9.2 lb (4.2 kg) 	t 1: Low Profile, 32-bit PCI 2.3 usiness black color; metal case).8" W X 9.4" D X 3.1" H 75mm W X 238mm D X 80mm H 2 lb (4.2 kg) in maximum configuration						
SATA disk SATA controller SATA DVD±RW SATA cables	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV	00 rpm, vibration dampening mounts , integrated in ICH10DO, RAID 0/1 /D±RW SATA 1.5Gb/s Drive -drop to device), two SATA connectors r on planar	Toolless disToolless sys	olless cover for easy serviceability isk and optical drive removal ystemboard retention or stand for vertical orientation						
eSATA port Diskette drive Media reader	None None			 Security 	Security chip (see information on left) slot (in rear for attachment of					
Chipset	Digital Office [ICH10DO]	set (PCI Express® 2.0 x16), I/O Controller I (SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/0	Express x1,	 security are cor 	Kensington® MicroSaver® cable) y slot and cover release button nbined into one latch for ed chassis security					
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, ethernet (R. Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audi One internal speaker for I Gigabit ethernet on plana None None	e (stereo, 3.5mm), headphone (stereo, 3.5n J-45), monitor (VGA DB-15, DisplayPort) (1 used; one open for media reader or 2 ru ne-out (stereo, 3.5mm), microphone (stereo, Analog Devices AD1882 codec business audio r, Intel 82567LM, Wake on LAN®, ASF2.0,	ear USB ports) o, 3.5mm) DASH 1.0	Power-orAdministrHard diskBoot seqBoot with						
Keyboard Mouse Power supply	Optical Wheel Mouse (US	oard (USB connector), 104-key, black, Lenc BB connector), 400 dpi, black, Lenovo logo 130 watts, autosensing, 87% PSU	ovo® logo	Supports T	hinkVantage® technologies					
Preloaded opera- Genuine Winds Preloaded appli Rescue and R	ows® 7 Professional 32 cations⁵	Accessories 1GB PC3-8500 DDR3 SODIMM (notebo 2GB PC3-8500 DDR3 SODIMM (notebo 500GB SATA 3.0Gb/s Disk (7200 rpm)	ok) 43R1988 43R1990		STAR® 5.0-compliant JARD® certified					
 Password Man ThinkVantage ThinkVantage Lenovo Online Norton™ Interr (30 days of vir Adobe Reade Adobe Flash® Microsoft® Offi 	ager System Update Power Manager Toolbox Data Backup net Security 2009 us definitions) ur® Player ce 2007 Trial (60-day) ® Business Edition	1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA IL Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mon DisplayPort to Single-link DVI-D Cable DisplayPort to VGÅ Monitor Cable More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/acces	41R4474 40Y8625 45J7915 57Y4393 esguide	□ Internat □ Custom parts or for sele Mon - F next bus ○ Onsite seles (in eligil · 3-yea (Think · 3-yea (Think · 4-yea (Think · 4-yea (Think ○ ThinkPl lenovo.seles □ Post was □ Services □ 24 hour during t	Limited Warranty¹ parts and labor tional Warranty Service³ ther Replaceable Unit (CRU) nly (with limited onsite service cted parts³, 8 am - 5 pm, rir coverage excluding holidays, siness day response time) service upgrade options ble locations):² rr LOR 9x5, 4 hour response kPlus™ part number 41C9192) tr LOR 24x7, 4 hour response kPlus part number 41C9193) tr LOR 9x5, Next Business Day kPlus part number 41C9194) tr LOR 9x5, 4 hour response kPlus part number 41C9195) tr LOR 24x7, 4 hour response kPlus part number 41C9196)					

Slot x NameType-model bay	Processor	GHz C	ores	Memory	SATA /8 disk	SATA optical	Graphics		DisplayPort dongle	ENERGY STAR 5.0				
M58 7637-A2U 1x2 Co	re 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA. DP	None	ES50	No	Pro 32	GΡ	Nov 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor			Eco Ultra Sn	nall	optical disk				
Memory	2GB std , 4GB max ⁸ , PC3 -dual-channel capable, two	8500 1066MHz DDR3, non-parity, 204-pin SODIMM sockets (notebook); ory in one socket; one socket available	1	1" high,	no access, std disk				
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	telerator 4500 (GMA 4500), , uses main memory (up to 765MB), nnector, one DisplayPort™ connector, rts dual independent display	 Slot 1: Low Profile, 32-bit PCI 2.3 Business black color; metal case 10.8" W X 9.4" D X 3.1" H 275mm W X 238mm D X 80mm H 						
SATA disk SATA controller SATA DVD±RW SATA cables	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	0 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors on planar	9.2 lb (4.2 kg) in maximum configuration Hinged toolless cover for easy serviceability Toolless disk and optical drive removal Toolless systemboard retention System floor stand for vertical orientation						
eSATA port Diskette drive Media reader	None None None			Securi	Security ty chip (see information on left)				
Chipset	Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller H SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	optiona - secu	ty slot (in rear for attachment of al Kensington® MicroSaver® cable) rity slot and cover release button combined into one latch for				
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, ethernet (RJ- Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lir High Definition (HD) Audio One internal speaker for be Gigabit ethernet on planar None	(stereo, 3.5mm), headphone (stereo, 3.5r45), monitor (VGA DB-15, DisplayPort) (1 used; one open for media reader or 2 rele-out (stereo, 3.5mm), microphone (stereo, Analog Devices AD1882 codec usiness audio, Intel 82567LM, Wake on LAN®, ASF2.0, Keeper™ Trusted Platform Module, TCG 1	ear USB ports) o, 3.5mm) DASH 1.0	impro Power Admini Hard d Boot se	oved chassis security -on password istrator password lisk password (user and master) equence control vithout diskette, keyboard ual USB port disablement				
Keyboard Mouse Power supply	Optical Wheel Mouse (USI	ard (USB connector), 104-key, black, Lenc B connector), 400 dpi, black, Lenovo logo 30 watts, autosensing, 87% PSU	ovo® logo						
Preloaded oper	ating system ²⁰ ows® 7 Professional 32	Accessories 1GB PC3-8500 DDR3 SODIMM (notebo	ok) 43R1987	Supports	s ThinkVantage® technologies				
Preloaded appli Rescue and R Password Mar ThinkVantage	ications⁵ (only some listed) ecovery™ lager System Update	2GB PC3-8500 DDR3 SODIMM (notebo 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA DisplayPort to Single-link DVI-D Cable	ok) 43R1988 43R1990 45J7918	ENERG'	^a Gold rating Y STAR® 5.0-compliant GUARD® certified ompliant				
 (30 days of vir Adobe® Reade Adobe Flash® Microsoft® Offi 	Toolbox Data Backup net Security 2009 us definitions) er® Player ce 2007 Trial (60-day) r® Business Edition	DisplayPort to VGÅ Monitor Cable Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mon More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/acces	unt 40Y8625 esguide	interr Custo parts for se Mon- next I Consit (in elii - 4-y (Th - 4-y (Th - 4-y Think lenov Postv servic 24 ho durin	Limited Warranty¹ or parts and labor national Warranty Service³ omer Replaceable Unit (CRU) only (with limited onsite service elected parts³, 8 am - 5 pm, - Fri coverage excluding holidays, business day response time) te service upgrade options tigible locations):² ear LOR 9x5, Next Business Day tinkPlus part number 41C9194) ear LOR 9x5, 4 hour response tinkPlus part number 41C9195) ear LOR 9x7, 4 hour response tinkPlus part number 41C9196) to the services at to.com/thinkplus/warranty warranty maintenance ces available tur x 7 day¹⁴ toll-free support to the warranty period¹ 10-426-7378				

			Slot x				SATA	SATA		Monitor D)isplavPor	t Chassis	Intel		Global	Avail
		Type-model	bay	Processor		es Memor	y ⁸ disk	optical	Graphics	conn	dongle	intr switch	vPro			date
><	M58 M58	8 <mark>910-ALU</mark> 8910-AMU	2x3 F 2x3 G	Pentium E5400 <mark>Pentium E6300</mark> Core 2 Duo E7500 Core 2 Quad Q9500		2GB 2GB	250GB 250GB	2 DVD±RW DVD±RW DVD±RW DVD±RW	GMA GMA	VGA, DP VGA, DP	None None None None	Switch	No No No No	XP Pro XP Pro XP Pro	No	Jan 10 Nov 09 Nov 09 Mar 10
B -33	IVIOO (5910-ATO	• 7	These small and med These models have a	dium bus	iness (SI	MB) mod					ram	NO	AP PIO	INO	IVIAI TO
	Position Proces	ssor	Inte 800 Inte 106 Inte 106 Inte 133	mate security, stabill. Pentium® Proces MHz system bus, and Pentium Process 6MHz system bus, and Process 6MHz system bus, and Process 6MHz system bus, and Process 1 Core 2 Quad Process 1 Core 2 Quad Process 1 Coress	ssor E54 nd 2MB L or E6300 and 2MB cessor E and 3MB cessor C and 6MB	00 with c 2 cache 0 with du L2 cache 7500 wit L2 cache 19500 wit	lual-cor or al-core, e or th dual-ce or h quad-	e, core,	ise	Bay ② 3.5 Bay ③ 3.5 Slot 1: Lo	5", 1" hig 5", .5" hi w Profile,	-	cess, ss, ess 2.0	std optic std disk open (re	ar)	
	<u>Memo</u>	nentation ry	2GE non- Itali	cessor in LGA775 s or 4GB std, 8GB i -parity, dual-channe cs: standard m n-italics: standard m	max ⁸ , PC I capable emory in	two sock	O-pin DIN cets; two	MM sockets av	/ailable;	Busines12.5" W317mm16.5 lb (Business black color; metal case 12.5" W X 14.0" D X 3.9" H 317mm W X 355mm D X 99mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinge 					
	Graph	ics	integ one (sup	el Graphics Media A grated graphics in C analog VGA DB-15 ports single-link DV ports dual independ	(45, uses connect 'I-D via c	main me or, one D able 45J7	mory (u isplayPo	p to 1GB), rt™ conne	ctor	ToollessToollessToolless	disk, opt adapter systemb	ical drive r	emovation	al		900
	SATA I SATA (eSATA Disket	controller DVD±RW cables	Seri Sup Two		s, integr DVD±RW 1-drop to	ated in İ0 / SATA 1. o device)	CH10DO 5Gb/s D	, RAID 0/1 rive	support		• S op -	ecurity chi ecurity slo otional Ker optional c deactivatii ower-on pa	p (see t (in re singto able a ng the asswo	ear for atta on® Micros Iso locks cover rel rd	achme Saver the co	ent of ® cable) over by
	Chipse	et	Digi	el Q45 Express Chi Ital Office [ICH10DC ernet MAC, PCI 2.3,)] (SATA :	3.0Ġb/s v	vith RAII	0 0/1 supp	ort, PCI	Express x	1, • H • B	dministrato ard disk pa oot sequer oot withou	asswo nce co	rd (user a introl		aster)
		orts	Six eSA or Two	USB 2.0, micropho USB 2.0, serial (9-p TA USB 2.0 planar co e-in (stereo, 3.5mm)	in), ethei nn (1 use	net (RJ-4 d; one op	15), mon oen for m	itor (VĜA I nedia reade	OB-15, Der or 2 re	DisplayPort ear USB po), orts)	erial port I Idividual U Iome: Chas	/O cor SB po	ntrol ort disable	ment	
	Audio Speak Ethern Intel A	er iet	High One	n Definition (HD) Au e internal speaker fo abit ethernet on plai	dio, Anal r busines	òg Devices s audio	es AD18	82 codec	,	·		an auta Thin	ld\/ont	ro go® to ok		ioo
	Moder		Non		afeKeepe	r™ Truste	ed Platfo	rm Module	TCG 1	.2-complia		ports Thir EENGUAF			iriolog	lies
	Keybo Mouse		Pref	ferred Pro USB Key ical Wheel Mouse (l	board (U	SB conne	ector), 10	04-key, blad	ck, Leno			HS-complia				
	Preid - Wi thr Wi Preid - Re - Cli - Th - Th - Mo (30 - Le - Ad - Mii - Ro	ndows® XF ough down ndows 7 P paded app scue and fe ent Securit inkVantage inkVantage inkVantage inkVantage ox Syste obe® Reac crosoft® Of	rating Professional Professiona	ons ⁵ (only some list 'ery [™] ution™ ductivity Center em Update ® Plus efinitions) olbox 007 Trial (60-day) usiness Edition	According Accord	PC3-850 PC3-850 PC3-850 BB SATA SATA 3.0 er Multi-BlayPort to layPort layPort 00 DDR3 00 DDR3 3.0Gb/s Di 0Gb/s Di 0 Single- 0 VGA M ™ HD 34 dro® 256 lro 256 Vries on	B UDIMM B UDIMM Disk (7200 sk (7200 rp	o rpm) om) / SATA E Cable le 8 (DP, V6 290 LP set	45J54 45J54 43R1: 45J79 20rive 41N50 45J79 57Y4: GA) 45K11 43R1 55Y9;	134 135 1990 118 620 1015 3393 636 765 275	3-year part Internation Customer loarts only for selecte Internation Onsite servin eligible Internation Internatio	s and wan Replace (with I do part to overage sess data long sylvice u lilong sylvice u lil	rranty Serceable Unlimited on s³, 8 am - ge exclud by respon pgrade or ons): 7 5, 4 hour art number 4 hour number	rvice ⁹ sit (CR site s ps. site	ervice blidays, ie) nse 1192) onse 93) ss Day 94) nse 95) onse	

	Slot x	Processor	Ç⊔- ′	`oroo	Memory ⁸	SATA disk	SATA	Granhina		r Displa don		Intel vPro	Win7 preload	Global	Avail date
	2x3 2x3 2x3		2.70 2.93	2 2 4 2	2GB 2GB 4GB 4GB	250GB ² 250GB 320GB 320GB	DVD±RW DVD±RW DVD±RW DVD±RW DVD±RW		VGA, E VGA, E VGA, E VGA, E	OP No OP No OP No	ne ne ne ne	None None None	Pro 32 Pro 32 Pro 32 Pro 64	None None None	Jan 10 Jan 10 Mar 10
W30 0910-A00	• Th	nese small and medi nese models have a	um bus	siness	s (SMB) i	models aı			•			None	11004	None	IVIAI TO
Positioning Processor	Intel 800N Intel 1066 Intel	nate security, stability Pentium® Proces: MHz system bus, and Core™ 2 Duo Proc WHz system bus, and Core 2 Quad Proces MHz system bus, and	sor E54 d 2MB essor nd 3MB essor (400 w L2 ca E750 B L2 c Q950	vith dual- che or 0 with du ache or 0 with qu	-core, ıal-core,	·	Bay @	5.25",		no	access	std opt	K	
Implementation Memory	2GB non-	essor in LGA775 so or 4GB std , 8GB m parity, dual-channel	cket ax ⁸ , PC capable mory ir	23-85 e, fou	00 1066 r 240-pir sockets;	n DIMM so two sock	ockets; ets available	Slot 1 Slot 2 • Bus • 12.5	: Low P :: Low P iness bl 5" W X 1	.5" high rofile, PC rofile, 32 ack colo 4.0" D X X 355mm	CI Exp -bit F r; me (3.9"	press 2 PCI 2.3 Ital case H	e	reader)	
Graphics	integ (up to one a (sup)	Graphics Media Aurated graphics in Q4 o 765MB [2GB modianalog VGA DB-15 oports single-link DVI-ports dual independe	l5, use: els] or connect -D via c	s maii 1759N tor, or cable	n memoi MB <i>[4GB</i> ne Displa	ry ? <i>models]</i>) ayPort™ c	, onnector	• Too • Too • Too • Too	lless co lless dis lless ad lless sys	ver flips sk, optica apter ret stemboa	up an I driv entio rd ret	nd tilts b re remorn n tention	figuratior ackward val rientation	on rea	r hinges
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Seria Supe Two		s, integ VD±RV I-drop t	rated V SAT to dev	in İCH10 A 1.5Gb	DDO, RAI /s Drive	D 0/1 suppo	ort		Security option option de	uritý s nal k tiona activ	chip (se slot (in r Kensing I cable ating th	curity e informate ar for a ton® Micralso locke	ttachme oSaver s the co	ent of ® cable) over by
Chipset	Digita	Q45 Express Chip al Office [ICH10DO] rnet MAC, PCI 2.3, l	(SATA	3.0G	b/s with	RAID 0/1	support, PO	CI Expres		Adm Hard	inistr I disk	passwator pas ator passwatence c	ssword ord (user	and m	aster)
Front ports Rear ports		USB 2.0, microphon JSB 2.0, serial (9-pir [A							Port),	Boot Seria	: with al poi	out disk rt I/O co	cette, key		
	Line- High One	USB 2.0 planar conting (stereo, 3.5mm), Definition (HD) Audinternal speaker for bit ethernet on plana	line-out io, Ana busine	t (ster log D ss au	eo, 3.5m evices A dio	nm), micro D1882 co	ophone-in (s odec	stereo, 3.	5mm) ´						
Modem Security chip	None		eKeepe	er™ Tı	rusted P	latform M	odule, TCG	1.2-com	pliant	Suppo	rts T	hinkVar	ntage® te	chnolog	gies
Keyboard Mouse	Optio	erred Pro USB Keyboal Wheel Mouse (Uswatts with variable s	SB con	necto	r), 400 c	lpi, black,	Lenovo log	0	10	GREE RoHS		JARD® o	ertified		
Power supply Preloaded oper - Some: Genuin Profes - Some: Genuin Profes Preloaded appl Rescue and R Password Mar - ThinkVantage - ThinkVantage - ThinkVantage - ThinkVantage - Norton™ Intern (30 days of vir - Adobe® Reade - Adobe Flash® - Microsoft® Offi - Roxio® Creato (DVD±RW) - Roxio MyDVD	rating ne Wir sional sicatio decover ager Syste Power Toolbe Data net Secus de er® Playe ice 20 or® Bus	system ²⁰ ndows® 7 132 ndows 7 164 ns⁵ (only some liste ery™ em Update r Manager ox Backup ecurity 2009 finitions) er 07 Trial (60-day) siness Edition	Acc 1GE 2GE 500 1TB Sup Disp Disp ATI ^T NVI NVI Mor Acc	esso B PC3 B PC3 GB S SATA er Mu blayPo blayPo M Rac DIA C e acc	ries 3-8500 D ATA 3.0Gb/ A 3.0Gb/ Ulti-Burne ort to Vin Decor™ H Quadro® Quadro essories e in pdf I	DR3 UDII DR3 UDII Bb/s Disk s Disk (72 er DL DVI gle-link D A Monitoi D 3470 2 256MB N 56MB FX c on O-M5	MM MM (7200 rpm) 200 rpm) D±RW SATA VI-D Cable r Cable 56MB (DP, VVS 290 370 LP	4: 4: 4: 4: 4: 5: VGA) 4: 5: vriesguid	5J7915 7Y4393 5K1636 3R1765 5Y9275	integration of the control of the co	ernatitistomerstooderstomerstomerstomerstooderstoo	arts and conal Water Replaity (with the partice rooters of the partice rooters of the partice rooters of the partice rooters of the partice rooters of the partice rooters of the partice partice rooters of the partice rooters of t	arranty S aceable t limited of training and	ervice ⁹ Jnit (CRonsite s - 5 pm, uding honse timoptions or respoer 41C918 or 41C918 or 44C918 or 44C918 or 44C918 or 44C918 or 44C918	RU) service solidays ne) sonse 192) onse 193) ss Day 194) onse 195) onse

S Name Type-model	Slot x bay Processor	GHz Cores	Memory	SATA ⁸ disk	SATA	Gra	nhics	Monitor connectors	DisplayPort dongle		Preload	Global	Avail date
 M58 7360-D8U M58 7360-BVU M58 7360-BWU M58 7360-D4U M58 7360-D1U M58 7360-D5U M58 7360-D2U M58 7360-D3U M58 7360-D3U M58 7360-D6U 	2x3 Pentium E5300 2x3 Pentium E5300 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7500 2x3 Core 2 Duo E7500	2.60 2 2.60 2 2.80 2 2.80 2 2.80 2 2.80 2 2.93 2 2.93 2 2.93 2 2.93 2 2.80 2	1GB 2GB 1GB 1GB 2GB 2GB 1GB 2GB 2GB 2GB	160GB ² 160GB 160GB 160GB 160GB 250GB 160GB 250GB 160GB		G G G G G G G G G	MA MA MA MA MA MA 470 MA MA MA	VGA, DP VGA, DP	DP-to-DVI-E DP-to-DVI-E DP-to-DVI-E DP-to-DVI-E DP-to-DVI-E DP-to-DVI-E	No No No No No No No No No No No No No N	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro		Apr 09 Feb 09 Feb 09 Feb 09 Feb 09 Feb 09 Feb 09 Feb 09 Feb 09
Positioning Processor Implementation Memory	Ultimate security, stabilintel® Pentium® Proce 800MHz system bus, a Intel Core™ 2 Duo Pro 1066MHz system bus, Processor in FC-LGA6 1GB or 2GB std, 8GB non-parity, dual-channel	ssor E5300 nd 2MB L2 cocessor E740 and 3MB L2 or FC-LGA8 max8, PC3-8	with dua ache or 00 or E7 cache package 500 106	Al-core, 500 with e in LGA7 6MHz DD	dual-core, 775 socket R3,		Bay ©	① 5.25", 1. ② 3.5", 1' ③ 3.5", .5	6" high, acce ' high, no a " high, acce	ccess, ss,	std optic std disk open (re	ar)	
Graphics	Italics: standard m Non-italics: standard m Some: Intel Graphics integrated graph (XP Pro: up to	emory in two emory in one Media Acce nics in Q45, u 512MB [1GE 765MB [2GE A DB-15 conn 10, supports HD 3470, P alog VGA DE	lerator uses ma 8 models 8 models 9 models 1 models 2 models 1 models 2 models 3 models 3 models 3 models 3 models 3 models 3 models 3 models 5 models 5 models 6 models 6 models 7 models 8 models 8 models 8 models 9 mod	s; two soc ; 3 socket 4500 (GM in memor s], 1GB [2 s]), ne Displa depender ess® 2.0 > nector, or	ekets availals available IA 4500), IGB models INPORT™ cornt display IGB adapter IGB DisplayF	:]; nn,	* use • Bus • 12.3 • 317 • 16.5 • Too • Too • Too	2: Low Prof d in some siness blac 5" W X 14. 7mm W X 3 5 lb (7.5 kg billess coverabless disk, billess adap billess syste	ile, 32-bit PC	I 2.3 I case I 9mm I n confi tilts ba remove	H guration Ickward c	on rear	hinges
DP dongle SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Some: DisplayPort to S 160GB or 250GB, SATA Serial ATA, SATA 3.0Gk Some: DVD-ROM DL Some: Super Multi-Bu Two SATA cables (each One external SATA (eS None None	A 3.0Gb/s 72 b/s, integrated SATA 1.5Gb/ rner DL DVD 1-drop to de	00 rpm, d in ICH s 16-48) ±RW SA	vibration 10DO, RA K Max ⁴ Di ATA 1.5Gb	AID 0/1 sup rive o/s Drive	port	unts		 Security ch Security slooptional Ke optional control optional Power-on p Administrat 	Sec ip (see ot (in re nsingto cable a ing the asswo or pas	urity informatear for attention® Micro Iso locks cover rel rd sword	achme Saver [©] the co lease b	ent of cable ver by outtons
Chipset Front ports Rear ports	Intel Q45 Express Chi Digital Office [ICH10DO ethernet MAC, PCI 2.3, Two USB 2.0, micropho Six USB 2.0, serial (9-p)] (SATA 3.00 USB, LPC b one (stereo, 3	Sb/s with ous), SM 3.5mm),	n RAID 0/ SC® SCH headphoi	1 support, 5617 Supe ne (stereo,	PCI r I/C 3.5r	Expre	ess x1,	Hard disk pBoot sequeBoot withouSerial portIndividual L	asswo nce co it diske I/O cor	rd (user a entrol ette, keyb etrol	oard	aster)
Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT	eSATA Two USB 2.0 planar co Line-in (stereo, 3.5mm) High Definition (HD) AL One internal speaker fc Gigabit ethernet on pla	nn (1 used; o , line-out (ste dio, Analog I r business a	ne oper ereo, 3.5 Devices udio	for medi mm), mic AD1882 (a reader or rophone-in codec	2 re	ear US ereo, 3	SB ports) 3.5mm)	Supports Thi GREENGUA RoHS-compl	RD® ce	ertified		ies
Modem Security chip Keyboard Mouse Power supply	None None Winbond® WPCT200 S Preferred Pro USB Key Optical Wheel Mouse (I 280 watts with variable	board (USB of JSB connect	connecto	or), 104-k dpi, blacl	ey, black, L k, Lenovo k	eno	vo® lo	inpliant .	 ⇒ 3-year par ⇒ Internation ⇒ Customer parts only for selecte 	ts and nal War Replac (with led part	rranty Se ceable Ur limited or s³, 8 am -	rvice ⁹ nit (CR nsite se 5 pm,	ervice
Profess downg Vista® - Some: Genuir Busine * Vista models: Preloaded appli some listed) * Rescue and R * Client Security * ThinkVantage * ThinkVantage * McAfee® Virus * Roxio® Creato (DVD±RW) * Roxio MyDVD®	ne Windows® XP sional (preinstalled via rade rights in Windows Business) ne Windows Vista ess 32 Vista Premium logo ications⁵ (all OSes; only ecovery™ r Solution™ Productivity Center Power Manager (Vista) Scan® Plus (30-day) r® Business Edition	2GB PC: 500GB S 1TB SAT DVD-RO Super M DisplayF DisplayF ATI Rade NVIDIA® NVIDIA® More acc	3-8500 I 3-8500 I SATA 3.0Gb M DL S. ulti-Burr Port to Si Port to VO eon HD S Quadro Quadro Quadro de in pdf	o/s Disk (7 ATA 1.5G her DL DV ngle-link 3A Monito 3470 256 256MB F 356MB F 356MB F 356MB F	IMM k (7200 rpm 7200 rpm) b/s 16X-48 'D±RW SA DVI-D Cabl	X M ΓΑ C le ΘΑ)	4 4 4 2 2 4 2 5 4 4 5 5 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5J5435 3R1990 5J7918 1N5618 1N5620 5J7915 7Y4393 5K1636 3R1765 5Y9275	• 3-year L (ThinkPl • 4-year L (ThinkPl • 4-year L (ThinkPl • 4-year L	ess darvice u locati. .OR 9x us™ part. .OR 24 us part. .OR 9x us part. .OR 24 us part. .OR 24 us part. .OR 24 us part. .OR 34 us part.	ay respon pgrade of ons): ⁷ 5, 4 hour art number x7, 4 hour number ² 5, 4 hour number ² x7, 4 hour number ² tes at plus/warra aintenance toll-free nty perio	respondent of the control of the con	nse 192) onse 33) is Day 94) nse 95) onse

S Name Type-model	lot x bay Processor	SATA GHz Cores Memory ⁸ disk		araphics	Monitor conn	DisplayPort dongle		Preload	Global Educ	Avail date
M58 7360-EDU M58 7360-EGU M58 7360-DBU	2x3 Pentium E6300 2x3 Pentium E6300 2x3 Pentium E6300 2x3 Core 2 Quad Q8400 2x3 Core 2 Quad Q8400 • These models have a	2.80 2 2GB 250G 2.80 2 2GB 250G 2.66 4 2GB 250G 2.66 4 2GB 250G	B DVD±RW B DVD±RW	GMA GMA GMA GMA 3470	VGA, DP VGA, DP VGA, DP	DP-to-DVI-D DP-to-DVI-D DP-to-DVI-D	None None None	XP Pro XP Pro XP Pro	Educ	Nov 09 Nov 09 Nov 09 Nov 09 Nov 09
Positioning Processor	Intel® Pentium® Proces Virtualization Technolog and 2MB L2 cache or	ty, and manageability for the sor E6300 with dual-core y, 1066MHz system bus, occessor Q8400 with quady, 1333MHz system bus,	, ,	Bay	y ① 5.25", y ② 3.5",	1.6" high, ac 1" high, no .5" high, ac	access	std opt	k .	
mplementation Memory		ocket nax ⁸ , PC3-8500 1066MHz capable, four 240-pin DIM		Slo	t 1: Low Pi t 2: Low Pi	rofile, PCI Ex rofile, 32-bit F	press 2	. ,	reader)	
Graphics DP dongle	Non-italics: standard me Some: Intel Graphics I integrated graph (up to 512MB [1 one analog VGA HDCP, DirectX™ Some: ATI™ Radeon™ 256MB, one ana	emory in one socket; 3 soc Media Accelerator 4500 (ics in Q45, uses main mer GB models], 1GB [2GB m DB-15 connector, one Dis 10, supports dual indepen HD 3470, PCI Express® 2 log VGA DB-15 connector P, DirectX 10.1, ATI Avivo ^{TI}	kets available GMA 4500), nory odels]), playPort™ condent display 0 x16 adapter, one DisplayPo	• B • 12 • 3 • 16 • To • To • To	2.5" W X 1 17mm W > 6.5 lb (7.5 colless covolless dis colless ada colless sys	ne models ack color; me 4.0" D X 3.9" K 355mm D X kg) in maxim ver flips up ar k, optical driv apter retentio stemboard rei or stand for ve	' H (99mm oum cor nd tilts b re remo n tention	H Ifiguration backward val	on rea	r hinge:
SATA disk SATA controller SATA DVD SATA DVD±RW SATA Cables eSATA port Diskette drive Media reader	250GB, SATA 3.0Gb/s 7 Serial ATA, SATA 3.0Gb, Some: DVD-ROM DL S Some: Super Multi-Bur	200 rpm, vibration damper's, integrated in ICH10DO, SATA 1.5Gb/s 16-48X Max'ner DL DVD±RW SATA 1.51-drop to device), two SAT	RAID 0/1 supp Drive Gb/s Drive		ar	Security (Security (optional h optional deactiv Power-or Administr	chip (se slot (in Kensing Il cable ating th In passw	rear for a ton® Micr also lock e cover r ord	ttachmeroSaver s the co	ent of ® cable over by
Chipset	Digital Office [ICH10DO	oset (PCI Express 2.0 x16] (SATA 3.0Gb/s with RAID USB, LPC bus), SMSC® S	0/1 support, F	PCI Exp		Hard diskBoot seqBoot with	c passw uence c out disl	ord (user control kette, key		aster)
Front ports Rear ports Internal connector Rear audio ports Audio Speaker	Six USB 2.0, serial (9-pi eSATA Two USB 2.0 planar con Line-in (stereo, 3.5mm),	ne (stereo, 3.5mm), headp n), ethernet (RJ-45), moni n (1 used; one open for m line-out (stereo, 3.5mm), dio, Analog Devices AD180 business audio	tor (VGA DB-1 edia reader or microphone-in	5, Displ 2 rear U	JSB ports)	Serial po Individua			lement	
Ethernet Intel AMT Modem	Gigabit ethernet on plan None None	ar, Intel 82567LM, Wake o	·			Supports T			chnolog	gies
Security chip Keyboard Mouse	Preferred Pro USB Keyb	feKeeper™ Trusted Platfor oard (USB connector), 10 ISB connector), 400 dpi, b	4-key, black, L	enovo®		GREENGU RoHS-com		certified		
through downg Windows 7 Pro Preloaded appli Some: Educa - VitalSource Th - Adobe® Elem - Photoshop - Premiere E Rescue and R Client Security ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe Reade Microsoft® Offi	ating system ²⁰ Professional preinstalled grade rights in Genuine ofessional cations ⁵ (only some listed ion software Library School Edition lents Elements 6 lements 4 ecovery TM Solution TM Productivity Center System Update Scan® Plus us definitions) In Toolbox	Accessories 1GB PC3-8500 DDR3 2GB PC3-8500 DDR3 500GB SATA 3.0Gb/s I 1TB SATA 3.0Gb/s Dis DVD-ROM DL SATA 1. Super Multi-Burner DL DisplayPort to Single-li DisplayPort to VGA Mo ATI Radeon HD 3470 2 NVIDIA® Quadro® 256I NVIDIA Quadro 256ME More accessories on C Acc Guide in pdf lenov Other accessories at le	UDIMM UDIMM Disk (7200 rpm) 6Gb/s 16X-48) DVD±RW SAT nk DVI-D Cable nitor Cable 556MB (DP, VG MB NVS 290 B FX 370 LP -M58 sheet 0.com/access) K Max A Drive e iA) oriesgu	45J7915 57Y4393 45K1636 43R1765 55Y9275 iide	for select Mon - Fr next bus Consite s (in eligit 3-year (Think 3-year (Think 4-year (Think 4-year (Think 4-year (Think 4-year (Think 4-year (Think Think Think Pli	arts an ional W. er Repliny (with cited pair cover siness of service below the condition of the cover LOR 9. Plus pair Plus pair LOR 9. Plus pair LOR 9. Plus pair Plus pair Plus pair Plus pair Plus pair Plus p	arranty S aceable l i limited of rts³, 8 am age exclu day respo upgrade titions): x5, 4 hou vart numbe 4x7, 4 ho rt number x5, Next rt number x5, 4 hou rt number irt number irt number irt number	Gervice ⁹ Jnit (CF onsite s 1 - 5 pm, uding h onse tim options or respo or 41C91: Busines 1 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91: or 41C91:	RU) service colidays ne) sonse 0192) sonse 93) sss Day 94) snse 95) sonse

Slot x Name Type-model bay Processor	GHz	Cores	Memory	SATA ⁸ disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
M58 7360-EHU 2x3 Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA. DP	DP-to-DVI-D	None	Pro 32	None	Jan 10

• This model has a 3-year limited warranty

Positioning Processor Implementation			Small	optical disk (in rear)
Memory	2GB std, 8GB max ⁸ , PC3 non-parity, dual-channel c		Bay ② 3.5",	1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader)
Graphics DP dongle	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), 5, uses main memory (up to 765MB), onnector, one DisplayPort™ connector, orts dual independent display	Slot 2: Low Pr Business bla 12.5" W X 1	ofile, PCI Express 2.0 x16 ofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB, SATA 3.0Gb/s 72 Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV	00 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 ID±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	16.5 lb (7.5Toolless covToolless dislToolless adaToolless sys	(355mm D X 99mm H kg) in maximum configuration er flips up and tilts backward on rear hinges k, optical drive removal apter retention temboard retention r stand for vertical orientation
Chipset	Digital Office [ICH10D0] (et (PCI Express® 2.0 x16), I/O Controller SATA 3.0Gb/s with RAID 0/1 support, PC SB, LPC bus), SMSC® SCH5617 Super I/	Express x1,	Security - Security chip (see information on left) - Security slot (in rear for attachment of
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip Keyboard Mouse Power supply Preloaded oper	Six USB 2.0, serial (9-pin) eSATA Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audic One internal speaker for be Gigabit ethernet on planar None None Winbond® WPCT200 Safe Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable sp	(stereo, 3.5mm), headphone (stereo, 3.5, ethernet (RJ-45), monitor (VGA DB-15, (1 used; one open for media reader or 2 rne-out (stereo, 3.5mm), microphone-in (sto, Analog Devices AD1882 codec usiness audio f, Intel 82567LM, Wake on LAN®, ASF2.0, Keeper™ Trusted Platform Module, TCG and (USB connector), 104-key, black, Lenober B connector), 400 dpi, black, Lenovo logoed fan, autosensing, two diagnostic LED Accessories	DisplayPort), rear USB ports) ereo, 3.5mm) DASH 1.0 1.2-compliant DVO® logo	optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons Power-on password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement
	ows® 7 Professional 32 ications⁵ ecovery™	1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk(7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm)	45J5434 45J5435 43R1990 45J7918	Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant
 ThinkVantage Lenovo Online Norton™ Interi (30 days of vir Adobe® Reade Adobe Flash® Microsoft® Offi 	Power Manager Toolbox • Data Backup net Security 2009 us definitions) er® Player ce 2007 Trial (60-day) r® Business Edition	Super Multi-Burner DL DVD±RW SATA I DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, V0 NVIDIA® Quadro® 256MB NVS 290 NVIDIA Quadro 256MB FX 370 LP More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	45J7915 57Y4393 GA) 45K1636 43R1765 55Y9275 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 · 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) · 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) · 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) · 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) · 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

91	lot x	SATA	SATA	Monitor D	isplayPort ENERGY	Intel Global Ava
NameType-model b	pay Processor	GHz Cores Memory ⁸ disk	optical Graphic	cs conn	dongle STAR 5.0	vPro Preload Educ da
< M58 6258-AMU 2 < M58 6258-APU 2 < M58 6258-ALU 2 M58 6258-ANU 2 < M58 6258-AQU 2 < M58 6258-AQU 2	2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7400 2x3 Core 2 Duo E7500 2x3 Core 2 Duo E7500 2x3 Core 2 Duo E7500 2x3 Pentium E5300 2x3 Core 2 Duo E7400	2.80 2 1GB 160GB 2.80 2 2GB 160GB 2.80 2 2GB 250GB 2.93 2 1GB 160GB 2.93 2 2GB 160GB 2.93 2 2GB 250GB 2.93 2 1GB 160GB 2.94 2 1GB 160GB	DVD GMA DVD±RW GMA DVD±RW 3470 DVD GMA DVD±RW GMA DVD±RW 3470 DVD GMA	VGA, DP VGA, DP DI VGA, DP VGA, DP VGA, DP DI VGA, DP DI VGA, DP DI	P-to-DVI-D ES50 ES50 P-to-DVI-D ES50 P-to-DVI-D ES50 P-to-DVI-D ES50 P-to-DVI-D ES50 P-to-DVI-D ES50 P-to-DVI-D ES50	No XP Pro Feb No XP Pro Feb No XP Pro Feb No XP Pro Feb No XP Pro Feb No XP Pro Feb No XP Pro Feb No Bus32 Apr No Bus32 Gbl Feb Gbl Feb
Positioning Processor	Intel® Pentium® Proce 800MHz system bus, a	cessor E7400 or E7500 wi	,	Small		ical disk (in rear)
Implementation Memory	Processor in FC-LGA6 1GB or 2GB std, 8GB non-parity, dual-channe Italics: standard m	or FC-LGA8 package in LG max ⁸ , PC3-8500 1066MHz I el capable, four 240-pin DIM emory in two sockets; two s	DDR3, M sockets; sockets available;	Bay ② 3.5", Bay ③ 3.5", Slot 1: Low F	 1.6" high, access 1" high, no access 5" high, access Profile, PCI Expres Profile, 32-bit PCI 2 	ess, std disk , open (reader) s 2.0 x16*
Graphics DP dongle	Some: Intel Graphics integrated graph (XP Pro: up to Vista: up to one analog VG/HDCP, DirectX [®] Some: ATI™ Radeon™ 256MB, one analog	Media Accelerator 4500 (6 nics in Q45, uses main men 512MB [1GB models], 1GB 253MB [1GB models], 765M A DB-15 connector, one Dis 10, supports dual independent of the property HD 3470, PCI Express® 2. alog VGA DB-15 connector, PD C1 Express® 2	GMA 4500), nory [2GB models]; B [2GB model]), playPort™ conn, dent display 0 x16 adapter, one DisplayPort	 12.5" W X 317mm W 16.5 lb (7.5 Toolless co Toolless dis Toolless sy 	olack color; metal c 14.0" D X 3.9" H X 355mm D X 99n 5 kg) in maximum d	nm H configuration is backward on rear hing moval
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	160GB or 250GB, SATA Serial ATA, SATA 3.0Gb Some: DVD-ROM DL Some: Super Multi-Bu	A 3.0Gb/s 7200 rpm, vibrations, integrated in ICH10DO, SATA 1.5Gb/s 16-48X Max ⁴ rner DL DVD±RW SATA 1.5 1-drop to device), two SATA	RAID 0/1 suppor Drive Gb/s Drive	t	Security chip Security slot (optional Kens - optional cat deactivating Power-on pas Administrator	password
Chipset Front ports	Digital Office [ICH10DC ethernet MAC, PCI 2.3,	pset (PCI Express 2.0 x16) D] (SATA 3.0Gb/s with RAID USB, LPC bus), SMSC® Sone (stereo, 3.5mm), headpl	0/1 support, PCI CH5617 Super I/0	Express x1,	Boot sequence Boot without ce Serial port I/Ce	diskette, keyboard control
Rear ports		in), ethernet (RJ-45), monit				B port disablement
Rear audio ports Audio Speaker Ethernet Intel AMT Modem	Line-in (stereo, 3.5mm) High Definition (HD) Au One internal speaker for Gigabit ethernet on plan None	nar, Intel 82567LM, Wake o	microphone-in (ste 32 codec n LAN®, ASF2.0,	DASH 1.0	Climate Savers EPEAT™ Gold I ENERGY STAF GREENGUARD RoHS-compliar	rating R 5.0-compliant O [®] certified
Security chip Keyboard		afeKeeper™ Trusted Platfor board (USB connector), 104	·	· ·	Lim	ited Warranty ¹
Mouse Power supply	Optical Wheel Mouse (I	JSB connector), 400 dpi, bl speed fan, autosensing, 85	ack, Lenovo logo	770 logo		Warranty Service9
downg Vista® - Some: Genuir Busine > Vista models: Preloaded appli some listed) • Rescue and R • Client Security • ThinkVantage • McAfee® Virus • Microsoft® Offi • Roxio® Creator (DVD±RW) • Roxio MyDVD®	ne Windows® XP sional (preinstalled via rade rights in Windows Business) ne Windows Vista ss 32 Vista Premium logo scations⁵ (all OSes; only ecovery™ r Solution™ System Update Power Manager (Vista) Scan® Plus (30-day) ce 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC3-8500 DDR3 I 2GB PC3-8500 DDR3 I 500GB SATA 3.0Gb/s DI 1TB SATA 3.0Gb/s Dish DVD-ROM DL SATA 1.5 Super Multi-Burner DL DisplayPort to Single-lin DisplayPort to VGA Mo ATI Radeon HD 3470 2 NVIDIA® Quadro® 256M NVIDIA Quadro 256ME More accessories on O Acc Guide in pdf lenov Other accessories at le	JDIMM Disk (7200 rpm) c (7200 r	Orive 41N5620 45J7915 57Y4393 45K1636 43R1765 55Y9275	parts only (w for selected Mon - Fri cov next busines Onsite servic (in eligible lo 3-year LOI (ThinkPlus 4-year LOI (ThinkPlus Post warrant services ava 24 hour x 7 o	R 9x5, 4 hour response ™ part number 41C9192) R 24x7, 4 hour response part number 41C9193) R 9x5, Next Business Dar part number 41C9194) R 9x5, 4 hour response part number 41C9195) R 24x7, 4 hour response part number 41C9196) ervices at thinkplus/warranty ty maintenance

Slot x NameType-model bay Processor	GHz	Cores	lemory	SATA 8 disk	SATA optical	Graphic	Monitor s conn	DisplayPort dongle	ENERGY STAR 5.0	Intel vPro	Glol Preload Edu	oal Avail ic date
M58 6258-B1U 2x3 Pentium E6300 M58 6258-AWU 2x3 Pentium E6300 M58 6258-AVU 2x3 Core 2 Quad Q8400	2.80 2.80 2.66	2	2GB			GMA	VGA, DP	DP-to-DVI-DP-to-DVI-D	ES50	No		Oct 09

These models have a 3-year limited warranty¹

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Quad Processor Q8400 with quad-core, Virtualization Technology, 1333MHz system bus, and 4MB L2 cache Processor in LGA775 socket	Bay ② 3.5", Bay ③ 3.5",	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader)
Memory	1GB or 2GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; Non-italics: standard memory in one socket; 3 sockets available	Slot 2: Low Pr	ofile, PCI Express 2.0 x16 ofile, 32-bit PCI 2.3 ack color; metal case
Graphics DP dongle	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 512MB [1GB models], 1GB [2GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display Some: DisplayPort to Single-link DVI-D Cable	• 317mm W > • 16.5 lb (7.5 • Toolless cov • Toolless dis • Toolless ada	4.0" D X 3.9" H (355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal apter retention ttemboard retention
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB , SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 <i>Some:</i> DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive <i>Some:</i> Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors on pone external SATA (eSATA) port None		Security Security (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller IDigital Office [ICH10D0] (SATA 3.0Gb/s with RAID 0/1 support, PCI ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	Power-on password Administrator password Hard disk password (user and master) Boot sequence control
Rear audio ports Audio Speaker	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, I eSATA Two USB 2.0 planar conn (1 used; one open for media reader or 2 ruline-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 1.5mm), microphone-in (stereo	DisplayPort), ear USB ports) ereo, 3.5mm)	Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement
Ethernet Intel AMT	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, None	DASH 1.0	Supports ThinkVantage® technologies
Modem Security chip	None Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1	.2-compliant	Climate Savers®-compliant EPEAT™ Gold rating
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU		ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Preloaded oper - Windows® XP	ating system ²⁰ Accessories Professional preinstalled 1GB PC3-8500 DDR3 UDIMM	45J5434	Limited Warranty ¹

through downgrade rights in Genuine Windows 7 Professional

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Client Security Solution™
 ThinkVantage Productivity Center
- ThinkVantage System Update
- McAfee® VirusScan® Plus (30 days of virus definitions)
- Lenovó System Toolbox
- Adobe® Reader®
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD, DVD±RW)

2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable
DisplayPort to VGA Monitor Cable
ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45J7915 57Y4393 45K1636 NVIDIA® Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB FX 370 LP 55Y9275 More accessories on O-M58 sheet

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
- 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
- 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period1

Slot x Name Type-model bay		GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors				Global (G GMP (P)	
M58 7638-A2U 2x3	Core 2 Duo E7500	2.93	2	1GB	160GB	DVD	GMA	VGA, DP	None	None	Bus32	GΡ	Aug 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service3 3-year limited warranty

Positioning Processor Implementation			Small	optical disk (in rear)
Memory	1GB std, 8GB max ⁸ , PC3 non-parity, dual-channel c		Bay @ 3.5",	1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader)
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), 5, uses main memory (up to 253MB), onnector, one DisplayPort™ connector D via cable 45J7915), HDCP, DirectX® 10, t display	Slot 2: Low Pr Business bla 12.5" W X 1 317mm W X	ofile, PCI Express 2.0 x16 ofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H C 355mm D X 99mm H
SATA disk SATA controller SATA DVD SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s DVD-ROM DL SATA 1.5G	drop to device), two SATA connectors	Toolless covToolless dislToolless adaToolless sys	kg) in maximum configuration rer flips up and tilts backward on rear hinges k, optical drive removal apter retention temboard retention r stand for vertical orientation
Chipset	Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/0	Express x1,	Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
Front ports Rear ports		e (stereo, 3.5mm), headphone (stereo, 3.5, ethernet (RJ-45), monitor (VGA DB-15, l		optional cable also locks the cover by deactivating the cover release buttons Power-on password
Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for be Gigabit ethernet on planal None None	(1 used; one open for media reader or 2 r ne-out (stereo, 3.5mm), microphone-in (st o, Analog Devices AD1882 codec susiness audio r, Intel 82567LM, Wake on LAN®, ASF2.0, eKeeper™ Trusted Platform Module, TCG 1	ereo, 3.5mm) ´	Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement
Keyboard Mouse Power supply	Optical Wheel Mouse (US	ard (USB connector), 104-key, black, Lenc B connector), 400 dpi, black, Lenovo logo eed fan, autosensing, two diagnostic LED	Ü	
Preloaded oper - Genuine Wind	ows® Vista® Business 32	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM	45J5434 45J5435	
Preloaded appli Rescue and R	ications⁵ ecovery™	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) DVD-ROM DL SATA 1.5Gb/s 16-48X Ma	43R1990 45J7918	Supports ThinkVantage® technologies
Client SecurityThinkVantageThinkVantage	Productivity Center	DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VC	45J7915 57Y4393	GREENGUARD® certified RoHS-compliant
ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi Corel® WinDVI	Scan® Plus us definitions) n Toolbox er® ce 2007 Trial (60-day)	NVIDIA® Quadro® 256MB NVS 290 NVIDIA Quadro 256MB FX 370 LP More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorio Other accessories at lenovo.com/accessories	43R1765 55Y9275 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 - 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Type-model	Slot x bay	Processor	GHz C	ores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors		Preload	Global Educ	Avail date
			Core 2 Duo E7500 Core 2 Quad Q9500					DVD±RW DVD±RW		VGA, DP VGA, DP				Nov 09 Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	• 6.9" W X 17 • 175mm W X	ack color; metal case 3" D X 15.8" H 440mm D X 402mm H 0 kg) in max configuration
Memory	2GB or 4GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	 Toolless cov Toolless disoptical drive 	ver removal k, diskette drive,
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5",	1" high, no access, std disk
SATA disk SATA controller SATA DVD±RW SATA cables	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), three SATA connectors	Slot 2: half-lei Slot 3: half-lei	ngth,full-height, PCIe 2.0 x16 (75w max) ngth,full-height, PCIe x1 ngth,full-height, 32-bit PCI 2.3 ngth,full-height, 32-bit PCI 2.3
- O ATA I	and one eSATA connector on planar		Security
eSATA port Diskette drive Media reader	None None None		Security chip (see information on left) One lock to secure both cover and
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller IDigital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable)
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), etherne monitor (VGA DB-15, DisplayPort)		Power-on password Administrator password Hard disk password (user and master)
Rear audio ports Audio Speaker Ethernet	r Two USB 2.0 planar conn (1 used; one open for media reader or 2 re Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (ste High Definition (HD) Audio, Analog Devices AD1882 codec One internal speaker for business audio Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0,	ereo, 3.5mm) ´	Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement
Intel AMT Modem	None None		Supports ThinkVantage® technologies
Security chip	Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1	.2-compliant	GREENGUARD® certified
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), black, Lencovo logo	ovo® logo	RoHS-compliant
Power supply	280 watts with variable speed fan, manual switch, two diagnostic LE	Ds	Limited Warranty ¹

Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Client Security Solution™
 ThinkVantage Productivity Center
 ThinkVantage System Update
- McAfee® VirusScan® Plus (30 days of virus definitions)

- Lenovo System Toolbox Adobe® Reader® Microsoft® Office 2007 Trial (60-day) Roxio® Creator® Business Edition
- (DVD±RW)
- Roxio MyDVD® (DVD±RW) Corel® WinDVD® (DVD±RW)

Accessories

1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk(7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-rav™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort to Single-link DVI-D Cable
DisplayPort to VGA Monitor Cable 45J7915 57Y4393 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB NVS 295 45K1669 More accessories on O-M58 sheet

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

	Name	Type-model	Slot x bay	Processor	GHz (ores	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle			Global Educ	Avail date
	M58	9960-ALU	4x4	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	/ GMA	VGA, DP	None	None	Pro 32	None	Jan 10
133	M58	9960-APU	4x4	Core 2 Quad Q9500	2.83	4	4GB	320GB	DVD ±RW	/ GMA	VGA, DP	None	None	Pro 32	None	Mar 10
133	M58	9960-AMU	4x4	Core 2 Duo E7500	2.93	2	4GB	320GB	DVD ±RW	/ GMA	VGA, DP	None	None	Pro 64	None	Mar 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q9500 with quad-core, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	• 6.9" W X 17 • 175mm W X	ack color; metal case 3" D X 15.8" H 2440mm D X 402mm H 30 disk
Memory	2GB or 4GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	 Toolless cov Toolless disl optical drive 	er removal k, diskette drive,
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB [2GB models] or 1759MB [4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-ler	1" high, no access, std disk ngth, full-height, PCIe 2.0 x16 (75w max)
SATA disk SATA controller SATA DVD±RW	250GB or 320GB , SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Slot 3: half-ler	ngth, full-height, PCIe x1 ngth, full-height, 32-bit PCI 2.3 ngth, full-height, 32-bit PCI 2.3
SATA cables eSATA port Diskette drive Media reader	Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar None None		Security Security chip (see information on left) One lock to secure both cover and entire system to fixed object:
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller IDigital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password
Front ports Rear ports Internal connector Rear audio ports Audio Speaker	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), etherne monitor (VGA DB-15, DisplayPort) Two USB 2.0 planar conn (1 used; one open for media reader or 2 re Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, High Definition (HD) Audio, Analog Devices AD1882 codec One internal speaker for business audio	t (ŔJ-45), ear USB ports) ereo, 3.5mm)	Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement
Ethernet Intel AMT Modem Security chip	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, None None Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1		Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), black, Lencovo logo 280 watts with variable speed fan, manual switch, two diagnostic LE	ovo® logo	Limited Warranty¹
Proloaded oper	ating system ²⁰		⇒ International Warranty Service ⁹

- Some: Genuine Windows® 7 Professional 32
- Some: Genuine Windows 7 Professional 64

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager

- ThinkVantage Toolbox Lenovo Online Data Backup
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader® Adobe Flash® Player

- Microsoft® Office 2007 Trial (60-day)
 Roxio® Creator® Business Edition
- (DVD±RW)
- Roxio MyDVD® (DVD±RW)

Accessories

	1GB PC3-8500 DDR3 UDIMM	45J5434
	2GB PC3-8500 DDR3 UDIMM	45J5435
	500GB SATA 3.0Gb/s Disk(7200 rpm)	43R1990
	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
١	Company Maries Dromany DL DVD DVA CATA Duises	41N5620
,	Super Multi-Burner DL DVD±RW SAIA Drive Blu-ray™ Burner SATA 1.5Gb/s Drive DisplayPort to Single-link DVI-D Cable	45K1675
	DisplayPort to Single-link DVI-D Cable	45J7915
	DisplayPort to VGA Monitor Cable	57Y4393
	ATI ^{†M} Řadeon™ HD 3470 256MB (DP, VGA)	45K1636
	NVIDIA® GeForce® 9500GT 512MB (DP, DVI))45K1635
	NVIDIA Quadro® 256MB NVS 290	43R1765
	NVIDIA Quadro 256MB NVS 295	45K1669
	More accessories on O-M58 sheet	

- ft)
 - ck)
- ter)

- ✓ International Warranty Service⁹
 ✓ Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance
- services available
- 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

s	lot x		SATA SA	ATA	Monitor	DisplayPort	Intel		Global	Avail
Name Type-model	bay Processor	GHz Cores Memory	⁸ disk opt	ical Grap	hics connectors		vPro	Preload		date
M58 7373-BTU 4 M58 7373-BUU 4 M58 7373-BWU 4 M58 7373-BVU 4 M58 7373-D1U 4	4x4 Pentium E5300 4x4 Pentium E5300 4x4 Core 2 Duo E7400 4x4 Core 2 Duo E7400 4x4 Core 2 Duo E7500 4x4 Core 2 Duo E7500 4x4 Core 2 Duo E7400 • These models have a	2.60 2 2GB 2.80 2 1GB 2.80 2 2GB 2.93 2 1GB 2.93 2 2GB 2.80 2 2GB	160GB ² DVD 160GB DVD 160GB DVD 160GB DVD 160GB DVD 160GB DVD 160GB DVD	D±RW GM D±RW GM D±RW GM D±RW GM	MA VGA, DP MA VGA, DP MA VGA, DP MA VGA, DP MA VGA, DP	DP-to-DVI-D DP-to-DVI-D DP-to-DVI-D	None None None None	XP Pro XP Pro		Apr 09 Feb 09 Feb 09 Feb 09 Feb 09 Feb 09
Positioning				rnring	T_					
	Ultimate security, stabil. Intel® Pentium® Proces 800MHz system bus, as Intel Core™ 2 Duo Pro 1066MHz system bus, a Processor in FC-LGA6	ssor E5300 with dund 2MB L2 cache or cessor E7400 or Eand 3MB L2 cache	ál-core, 7500 with dua	l-core,	• 6.9" W X 17 • 175mm W X	ack color; meta .3" D X 15.8" F .440mm D X 4 0 kg) in max co pp front	1 102mm		② ③ disk	
Memory	1GB or 2GB std, 8GB on non-parity, dual-channe Italics: standard m Non-italics: standard m	I capable, four 240- emory in two socke	pin DIMM soci ts; two sockets	available;	optical drive	k, diskette drive	e,			
	one analog VGA DB-15 HDCP, DirectX® 10, sup	145, uses main men 512MB [1GB mode 765MB [2GB mode connector, one Dis ports dual independ	nory els], 1GB <i>[2GE</i> els]), playPort™ con dent display		Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-ler	1" high, no a ngth,full-height	ess, ess, access, a. PCle	std optic open open (re std disk 2.0 x16 (ader/d	
DP dongle SATA disk	Some: DisplayPort to S 160GB, SATA 3.0Gb/s	7200 rpm, vibration	dampening mo		 Slot 3: half-ler 	ngth,full-height ngth,full-height ngth,full-height	, 32-bit	PCI 2.3		
eSATA port Diskette drive	Serial ATA, SATA 3.0Gb Some: DVD-ROM DL Some: Super Multi-Bu Two SATA cables (each one eSATA connector o None None None	SATA 1.5Gb/s 16-48 rner DL DVD±RW S 1-drop to device), t	X Max ⁴ Drive ATA 1.5Gb/s [Orive	nd	Security ch One lock to entire syste Padlock I Security	nip (see o secure em to fix oop (in	e both co xed object rear for c	ver and ct: opt pad	d llock)
	Intel Q45 Express Chi Digital Office [ICH10DC ethernet MAC, PCI 2.3,	i] (SATA 3.0Gb/s wit	I Express x1,	Kensingto Power-on p Administra Hard disk p	on® Mic passwor tor pass	roSaver [®] rd sword	cable)			
Rear ports Internal connector Rear audio ports	Two USB 2.0, micropho Six USB 2.0, serial (9-p monitor (VGA DB-15, D Two USB 2.0 planar cou Line-in (stereo, 3.5mm) High Definition (HD) Au One internal speaker fo	in), keyboard (PS/2 isplayPort) nn (1 used; one ope , line-out (stereo, 3. dio, Analog Devices	et (RJ-45), rear USB ports)					,		
Ethernet Intel AMT Modem	Gigabit ethernet on plan None None	nar, Intel 82567LM,				Supports ThinkVantage® technologies GREENGUARD® certified				
Keyboard	Winbond® WPCT200 Sa Preferred Pro USB Key	ooard (USB connec	tor), 104-key,	black, Lend	•	RoHS-compl				
Mouse Power supply	Optical Wheel Mouse (1280 watts with variable				Ds	l <i>⇒</i> 3-year pa		Warrant	ty¹	
Profess downgr Vista® I - Some: Genuin Busine: Vista models: \ Preloaded appli Rescue and Re Client Security ThinkVantage ThinkVantage	e Windows® XP sional (preinstalled via ade rights in Windows Business) e Windows Vista ss 32 /ista Premium logo cations⁵ (all OSes) ecovery™ Solution™ Productivity Center System Update Power Manager (Vista) Scan® Plus	Accessories 1GB PC3-8500 2GB PC3-8500 500GB SATA 3. 1TB SATA 3.0G DVD-ROM DL 5 Super Multi-Bui Blu-ray™ Burne DisplayPort to 5 DisplayPort to 1 ATI™ Radeon™ NVIDIA® GeFor NVIDIA Quadro NVIDIA Quadro More accessori Acc Guide in po	DDR3 UDIMN 0Gb/s Disk (720) b/s Disk (720) 6ATA 1.5Gb/s mer DL DVD± r SATA 1.5Gb, Single-link DVI /GA Monitor C HD 3470 256 ce® 9500GT 5 © 256MB NVS es on O-M58	M 200 rpm) 0 rpm) 16X-48X N RW SATA I /s Drive -D Cable table MB (DP, VI 112MB (DF 3 290 295 sheet	Drive 41N5620 45K1675 45J7915 57Y4393 GA) 45K1636 P, DVI)45K1635 43R1765 45K1669	 Internatio Customer parts only for select Mon - Frinext busi Onsite se (in eligible 3-year (ThinkP 4-year (ThinkP 4-year (ThinkP 4-year (ThinkP 	nal War r Replac y (with I ed parts coverage ness da rvice u le locati LOR 9x llus™ pa LOR 24: llus part LOR 9x llus part LOR 9x llus part LOR 9x llus part	rranty Seceable Unimited on significant of the company responsive on significant of the company responsive of the company	nit (CRinsite set 5 pm, ding house timptions responding to 12% and 12%	ervice olidays, e) nse 192) onse 93) es Day 94) nse
 Lenovó System Adobe® Reade Microsoft® Offic Roxio® Creator (DVD±RW) Roxio MyDVD® 	n Toolbox r® ce 2007 Trial (60-day) ® Business Edition	Other accessor					lus part s servic om/think anty ma availabl 7 day ¹⁴ e warra	number 4 es at plus/warr aintenance toll-free nty perio	41C919 anty ce suppo	96)

Intel® Pentium® Process Virtualization Technology, and 2MB L2 cache or Intel Core™ 2 Quad Proc Virtualization Technology, and 4MB L2 cache Processor in LGA775 soc IGB or 2GB std, 8GB mannen-parity, dual-channel of Non-italics: standard mer Some: Intel Graphics Mannel of the processor in LGA775 soc HDCP, DirectX® 1 Some: ATI™ Radeon™ H256MB, one analog VGA IHDCP, DirectX® 1 Some: DisplayPort to Sin Some: DVD-ROM DL SA Some: DVD-ROM DL SA Some: Super Multi-Burn Some: Super Multi-Burn	2.80 2 2GB 250GE 2.66 4 2GB 320GE 2.66 4 2GB 320GE 2.66 4 2GB 320GE 2.66 4 2GB 320GE 2.67 year limited warranty 2, and manageability for the 3 yestem bus, 4 yestem bus, 5 yestem bus, 6	P DVD GM, DVD±RW GM, DVD±RW GM, DVD±RW GM, DVD±RW GM, DVD±RW 347. DVD±RW 347. DVD+RW 347. DVD-RW 347. DV	A VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP Tower Business bla 6.9" W X 17. 175mm W X 24.2 lb (11.0 Handle on to Toolless cov Toolless disl optical drive Toolless ada Bay ① 5.25", Bay ② 5.25", Bay ② 3.5", Bay ④ 3.5", Bay ④ 3.5", Slot 1: half-ler Slot 2: half-ler Slot 3: half-ler Slot 4: half-ler	None None None None DP-to-DVI-D None None None None None None None None	e XP Pro e XP Pro e XP Pro e XP Pro e XP Pro e XP Pro e XP Pro se We We will be a companied of the companied open (reader/ss, std disk cle 2.0 x16 (75w reader x1).	Nov C Nov C Nov C Nov C	
Intel® Pentium® Process Virtualization Technology, and 2MB L2 cache or Intel Core™ 2 Quad Proc Virtualization Technology, and 4MB L2 cache Processor in LGA775 soc IGB or 2GB std, 8GB mannen-parity, dual-channel of Non-italics: standard mer Some: Intel Graphics Mannel of the processor in LGA775 soc HDCP, DirectX® 1 Some: ATI™ Radeon™ H256MB, one analog VGA IHDCP, DirectX® 1 Some: DisplayPort to Sin Some: DVD-ROM DL SA Some: DVD-ROM DL SA Some: Super Multi-Burn Some: Super Multi-Burn	cor E6300 with duál-core. 1066MHz system bus, cessor Q8400 with quad. 1333MHz system bus, cket ax8, PC3-8500 1066MHz I capable, four 240-pin DIM mory in one socket; 3 socied a Accelerator 4500 (0 cs in Q45, uses main men B models], 1GB [2GB mc DB-15 connector, one Dis 0, supports dual independent 10 3470, PCI Express* 2. bg VGA DB-15 connector, DirectX 10.1, ATI Avivo pele-link DVI-D Cable 3.0Gb/s 7200 rpm, vibrations	CORS, M sockets; wets available GMA 4500), hory dels]), layPort™ conn, lent display 0 x16 adapter, one DisplayPort , 25 watts	Business bla 6.9" W X 17. 175mm W X 24.2 lb (11.0 Handle on to Toolless cov Toolless dish optical drive Toolless ada Bay ① 5.25", Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-ler Slot 3: half-ler Slot 4: half-ler	3" D X 15.8" H 440mm D X 402m b kg) in max configue per front er removal k, diskette drive, removal apter retention 1.6" high, access, 1.6" high, access, 1.1" high,	std optical open open (reader/ss, std disk	diskette	
integrated graphic (up to 512MB /16 one analog VGA I HDCP, DirectX® 1 Some: ATI™ Radeon™ F 256MB, one analog connector, HDCP, Some: DisplayPort to Sin 250GB or 320GB, SATA: Serial ATA, SATA 3.0Gb/s Some: DVD-ROM DL SASome: Super Multi-Burn	es in Q45, uses main men B models], 1GB [2GB mc DB-15 connector, one Dis 0, supports dual indepenc 1D 3470, PCI Express® 2. DirectX 10.1, ATI Avivo™ gle-link DVI-D Cable 3.0Gb/s 7200 rpm, vibration	ory dels]), blayPort™ conn, lent display 0 x16 adapter, one DisplayPort , 25 watts	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-ler Slot 2: half-ler Slot 3: half-ler Slot 4: half-ler	1.6" high, access, 1" high, access, 1" high, no acces 1" high, no acces 10 high, height, PC 10 high, full-height, PC 11 high, access	open open (reader/ ss, std disk de 2.0 x16 (75w r de x1		
Serial ATA, SATA 3.0Gb/s Some: DVD-ROM DL SA Some: Super Multi-Burn			* used in som	0 .			
IWO SAIA CADIES (EACH 1 and one eSATA connecto None None None	ATA 1.5Gb/s 16-48X Max⁴ er DL DVD±RW SATA 1.5 -drop to device), three SA r on planar	RAID 0/1 support Drive Gb/s Drive		Security chip (s One lock to sec entire system to Padlock loop (Security slot (i)	cure both cover a o fixed object: (in rear for opt pa (in rear for optiona MicroSaver® cable	nd adlock) al	
Digital Office [ICH10DO]	set (PCI Express 2.0 x16) (SATA 3.0Gb/s with RAID JSB, LPC bus), SMSC® SO	Express x1,	Administrator paHard disk passvBoot sequence	assword word (user and m control	ıaster)		
Six USB 2.0, serial (9-pin monitor (VGA DB-15, Dis Two USB 2.0 planar conn Line-in (stereo, 3.5mm), l High Definition (HD) Audi	i (1 used; one open for me ine-out (stereo, 3.5mm), n o, Analog Devices AD188	e (PS/2), ethernet edia reader or 2 re nicrophone-in (ste	t (RJ-45), ear USB ports)	Boot without diskette, keyboard Serial port I/O control Individual USB port disablement			
One internal speaker for I Gigabit ethernet on plana None None	ousiness audio ir, Intel 82567LM, Wake o	n LAN®, ASF2.0, [DASH 1.0	Supports ThinkVa		gies	
Winbond® WPCT200 Safe Preferred Pro USB Keybo	eKeeper™ Trusted Platforn pard (USB connector), 104 SB connector), black, Lend	I-key, black, Leno		RoHS-compliant	ted Warranty ¹		
ting system ²⁰ Professional preinstalled ade rights in Genuine fessional Professional preinstalled ade rights in Genuine fessional Professional Pr	Super Multi-Burner DL Blu-ray [™] Burner SATA DisplayPort to Single-lin DisplayPort to VGA Mo ATI Radeon HD 3470 2 NVIDIA® GeForce® 956 NVIDIA Quadro® 256M NVIDIA Quadro 256ME More accessories on O Acc Guide in pdf lenov	JDIMM JDIMM JDIMM JDIMM JDIK (7200 rpm) (7200 rpm) (7200 rpm) SGb/s 16X-48X M DVD±RW SATA D 1.5Gb/s Drive Ik DVI-D Cable Intor Cable 56MB (DP, VGA) OGT 512MB (DP, B NVS 290 NVS 295 -M58 sheet D.com/accessorie	45J5434 45J5435 43R1990 45J7918 lax 41N5618 Drive 41N5620 45K1675 45J7915 57Y4393 45K1636 DVI)45K1635 43R1765 45K1669	parts only (with for selected parts on selected parts on selected parts of the service (in eligible locations) and selected (in eligible locations) and selected (ThinkPlus parts) and sel	Warranty Service blaceable Unit (Cit th limited onsite sarts*), 8 am - 5 pm erage excluding he day response tire upgrade options ations): 9x5, 4 hour responder and 10x1 yeart number 41C91 9x5, 4 hour responder 10x1 yeart number 41C91 9x5, 4 hour responder 10x1 yeart number 41C91 yeart number 41C91 yeart number 41C91 yeart number 41C91 yeart number 41C91 yices at inkplus/warranty maintenance able	RU) service I, noliday me) s onse 9192) oonse 193) ess Day 194) oonse 195) oonse	
on s Libi ents Elen eme cov	software sarry School Edition sarry School Edition nents 6 ents 4 ery™ ution™ luctivity Center em Update ® Plus efinitions) blbox	Software Fary School Edition Inents 6 Inents 4 Inents 4 Inerts 5 Inerts 4 Inerts 5 Inerts 4 Inerts	Software Fary School Edition Inents 6 Ents 4 Erry™ Intion™ Iluctivity Center em Update Image Plus efinitions) Incolor Trial (60-day) Isiness Edition Incolor Schild 1.5 AlA 1.5 Gb/s 16X-48X M Super Multi-Burner DL DVD±RW SATA I Blu-ray™ Burner SATA 1.5 Gb/s Drive DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI Radeon HD 3470 256MB (DP, VGA) NVIDIA® GeForce® 9500GT 512MB (DP, NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro 256MB NVS 295 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessories at lenovo.com/accessories at lenovo.com/accessories description Acc Guide in pdf lenovo.com/accessories description Other accessories at lenovo.com/accessories description Other accessories at lenovo.com/accessories description Other accessories des	Software So	Software so	Software so	

Slot x Name Type-model bay F	Processor GH:	z Cores N	/lemory	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	Intel vPro		Global Educ	
M58 7373-EGU 4x4 Core 2	2 Duo E7500 2.9	3 2	2GB	250GB ² I	DVD±RW	GMA	VGA, DP	DP-to-DVI-D	None	Pro 32	None	Jan 10

• This model has a 3-year limited warranty¹

	This model has a 3-year	r limited warranty		
Positioning Processor Implementation Memory	Intel® Core™ 2 Duo Proc 1066MHz system bus, an Processor in LGA775 soc 2GB std, 8GB max®, PC3 non-parity, dual-channel of	ket	• 6.9" W X 17 • 175mm W X	
DP dongle SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive	Intel Graphics Media Acintegrated graphics in Q4 one analog VGA DB-15 c HDCP, DirectX® 10, suppr DisplayPort to Single-link 250GB, SATA 3.0Gb/s 72 Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV Two SATA cables (each 1 and one eSATA connecto None None	celerator 4500 (GMA 4500), 5, uses main memory (up to 765MB), onnector, one DisplayPort™ connector, orts dual independent display DVI-D Cable 00 rpm, vibration dampening mounts , integrated in ICH10DO, RAID 0/1 //D±RW SATA 1.5Gb/s Drive -drop to device), three SATA connectors	Toolless disloptical drive Toolless ada Bay ① 5.25", Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-lei Slot 2: half-lei Slot 3: half-lei	k, diskette drive, removal apter retention 1.6" high, access, std optical 1.6" high, access, open 1" high, access, open (reader/diskette)
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip Keyboard Mouse Power supply	Digital Office [ICH10DO] ethernet MAC, PCI 2.3, U Two USB 2.0, microphone Six USB 2.0, serial (9-pin monitor (VGA DB-15, Dis Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audi One internal speaker for the Gigabit ethernet on planat None None Winbond® WPCT200 Safe Preferred Pro USB Keybo Optical Wheel Mouse (US	(1 used; one open for media reader or 2 r ne-out (stereo, 3.5mm), microphone-in (st o, Analog Devices AD1882 codec	Express x1, D mm) st (RJ-45), ear USB ports) ereo, 3.5mm) DASH 1.0 I.2-compliant ovo® logo	Security Security chip (see information on left) One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement
Preloaded appli Rescue and R Password Mar ThinkVantage ThinkVantage Lenovo Online Norton™ Interi (30 days of vir Adobe® Reade Adobe Flash® Microsoft® Offi	ows® 7 Professional 32 ications⁵ ecovery™ lager System Update Power Manager Toolbox Data Backup net Security 2009 us definitions) er® Player ce 2007 Trial (60-day) ® Business Edition	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I Blu-ray™ Burner SATA 1.5Gb/s Drive DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VI NVIDIA® GeForce® 9500GT 512MB (DP, VI NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro 256MB NVS 295 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	45K1675 45J7915 57Y4393 GA) 45K1636 DVI)45K1636 43R1765 45K1669 esguide	Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Type-model	Slot >	Processor	GHz	Cores	Memory	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	ENERGY STAR 5.0				I Avail
M58		4x4 4x4	Pentium E6300 Core 2 Duo E7500 Core 2 Duo E7500	2.93	2	2GB 2GB	250GB 250GB		GMA	VGA, DP	DP-to-DVI- DP-to-DVI-		No	XP Pro XP Pro XP Pro	No	Oct 0
Position	oning		imate security, stabi						se	Tower					ntica	<u></u>

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, Virtualization Technology, 1066MHz system bus, and 3MB L2 cache Processor In LGA775 socket	• 6.9" W X 17 • 175mm W X • 24.2 lb (11.0 • Handle on to • Toolless cov • Toolless disl	ver removal k, diskette drive,
Memory	2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; 3 sockets available		apter retention
Graphics	Some: Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ conn, HDCP, DirectX® 10, supports dual independent display Some: ATI™ Radeon™ HD 3470, PCI Express® 2.0 x16 adapter, 256MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10.1, ATI Avivo™, 25 watts	Bay © 5.25", Bay ® 3.5", Bay ® 3.5", Slot 1: half-ler Slot 2: half-ler Slot 3: half-ler	1" high, no access, sid disk ngth, full-height, PCle 2.0 x16 (75w max)* ngth, full-height, PCle x1 ngth, full-height, 32-bit PCl 2.3
DP dongle	Some: DisplayPort to Single-link DVI-D Cable		ngth,full-height, 32-bit PCI 2.3
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar None None None	* used in som	Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional
Chipset	Intel Q45 Express Chipset (PCI Express 2.0 x16), I/O Controller H Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password (user and master)
Front ports Rear ports Internal connecto Rear audio ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), etherne monitor (VGA DB-15, DisplayPort) r Two USB 2.0 planar conn (1 used; one open for media reader or 2 rd Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm).	t (RJ-45), ear USB ports)	Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement
Audio	High Definition (HD) Audio, Analog Devices AD1882 codec	ereo, 3.3mm)	Supports ThinkVantage® technologies
Speaker Ethernet Intel AMT Modem Security chip	One internal speaker for business audio Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, None None Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1		Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified

Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Client Security Solution™
 ThinkVantage Productivity Center
- ThinkVantage System Update McAfee® VirusScan® Plus
- (30 days of virus definitions)
- Lenovo System Toolbox
- Adobe® Reader®

Keyboard Mouse

Power supply

- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

Accessories

280 watts with variable speed fan, autosensing, 85% PSU

Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), black, Lenovo logo

1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 45J5435 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro 256MB NVS 295 43R1765 45K1669 More accessories on O-M58 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

GREENGUARD® certified RoHS-compliant

Limited Warranty¹

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at
- lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Slot x Name Type-model bay	Processor	GHz	Cores	Memory	SATA 8 disk	SATA optical	Graphics		DisplayPort dongle	ENERGY STAR 5.0			Global Educ	
M58 9728-A5U 4x4	Core 2 Duo E7500	2.93	2	2GB	250GB ²	DVD±RW	GMA	VGA. DF	P None	ES50	No	Pro 32	Gbl	Oct 09

• This model has a 3-year limited warranty

Positioning Processor		•	• 6.9" W X 17 • 175mm W X	ack color; metal case .3" D X 15.8" H (440mm D X 402mm H D kg) in max configuration					
Memory		8500 1066MHz DDR3, apable, four 240-pin DIMM sockets; ory in one socket; 3 sockets available	Handle on toToolless covToolless dis	op front ver removal k, diskette drive,					
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), i, uses main memory (up to 765MB), innector, one DisplayPort™ connector, rts dual independent display	optical drive removal Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open						
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	00 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 D±RW SATA 1.5Gb/s Drive drop to device), three SATA connectors on planar	ining mounts RAID 0/1 Bay ③ 3.5", 1" high, access, op Bay ④ 3.5", 1" high, no access, st ive Slot 1: half-length full-height PCle 2.0						
Media reader Chipset	None Intel Q45 Express Chipse	et (PCI Express® 2.0 x16), I/O Controller	Hub 10	Security Security chip (see information on left)					
	Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCl SB, LPC bus), SMSC® SCH5617 Super I/0	Security chip (see information on left) One lock to secure both cover and entire system to fixed object:						
	Six USB 2.0, serial (9-pin) monitor (VGA DB-15, Disp Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lir High Definition (HD) Audio One internal speaker for b Gigabit ethernet on planar None None	(1 used; one open for media reader or 2 r ne-out (stereo, 3.5mm), microphone-in (st o, Analog Devices AD1882 codec	ear USB ports) ear USB ports) ereo, 3.5mm) DASH 1.0	Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable)					
Keyboard Mouse Power supply	Optical Wheel Mouse (USI	ard (USB connector), 104-key, black, Lend B connector), black, Lenovo logo eed fan, autosensing, 85% PSU	ovo® logo	Supports ThinkVantage® technologies					
Preloaded oper - Genuine Wind	ating system ²⁰ ows® 7 Professional 32 ications ⁵ (only some listed)	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk(7200 rpm)	45J5434 45J5435 43R1990	Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant					
Password Mar		1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD+RW SATA I	45J7918 Drive 41N5620	Limited Warranty ¹					

- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox Lenovo Online Data Backup
- Norton™ Internet Security 2009
 (30 days of virus definitions)
 Adobe® Reader®
 Adobe Flash® Player

- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)

	1GB PC3-8500 DDR3 UDIMM	45J5434
	2GB PC3-8500 DDR3 UDIMM	45J5435
,	500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990
	1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918
	Super Multi-Burner DL DVD±RW SATA Drive	41N5620
	Blu-ray™ Burner SATA 1.5Gb/s Drive	45K1675
	DisplayPort to Single-link DVI-D Cable	45J7915
	DisplayPort to VGA Monitor Cable	57Y4393
	ATI [™] Radeon™ HD 3470 256MB (DP, VGA)	45K1636
	NVIDIA® GeForce® 9500GT 512MB (DP, DVI)	
	NVIDIA Quadro® 256MB NVS 290	43R1765
	NVIDIA Quadro 256MB NVS 295	45K1669
	More accessories on O-M58 sheet	

- 3-year parts and labor
- ✓ International Warranty Service⁹
 ✓ Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x Name Type-model bay Processor	GHz Cores	Memory	SATA ⁸ disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle			Global (G) GMP (P)	Avail date
M58 7639-A1U 4x4 Core 2 Duo E7500	2.93 2	2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	None	Pro 32	GΡ	Nov 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor			• 6.9" W X 17	ack color; metal case optical 3" D X 15.8" H
Memory	2GB std , 8GB max ⁸ , PC3 -non-parity, dual-channel ca		24.2 lb (11.0Handle on toToolless cov	ver removal
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	elerator 4500 (GMA 4500), , uses main memory (up to 765MB), nnector, one DisplayPort™ connector, rts dual independent display	optical drive • Toolless ada	k, diskette drive, removal apter retention 1.6" high, access, std optical
SATA disk SATA controller SATA DVD±RW SATA cables	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	drop to device), three SATA connectors	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-ler	1.6" high, access, open 1" high, access, open (reader/diskette) 1" high, no access, std disk ngth, full-height, PCIe 2.0 x16 (75w max)
eSATA port Diskette drive Media reader	None None None	•	Slot 3: half-ler	ngth, full-height, PCIe x1 ngth, full-height, 32-bit PCI 2.3 ngth, full-height, 32-bit PCI 2.3
Chipset	Digital Office [ICH10DO] (sethernet MAC, PCI 2.3, US	et (PCI Express® 2.0 x16), I/O Controller I SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	Security Security chip (see information on left) One lock to secure both cover and
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone Six USB 2.0, serial (9-pin), monitor (VGA DB-15, Disp Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lir High Definition (HD) Audio One internal speaker for be Gigabit ethernet on planar, None None Winbond® WPCT200 Safel	t (RJ-45), ear USB ports) ereo, 3.5mm) DASH 1.0	entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password (user and master) - Boot sequence control - Boot without diskette, keyboard - Serial port I/O control - Individual USB port disablement	
Keyboard Mouse Power supply	Optical Wheel Mouse (USI	ard (USB connector), 104-key, black, Lenc 3 connector), black, Lenovo logo seed fan, manual switch, two diagnostic LE	Ü	
Preloaded appli Rescue and R Password Mar ThinkVantage ThinkVantage Lenovo Online Norton™ Interi (30 days of vir Adobe Reade Adobe Flash® Microsoft® Offi	ows [®] 7 Professional 32 ications ⁵ (only some listed) ecovery™ nager System Update Power Manager Toolbox Data Backup ect Security 2009 us definitions) er® Player ce 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I Blu-ray™ Burner SATA 1.5Gb/s Drive DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® GeForce® 9500GT 512MB (DP, VC NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro 256MB NVS 295 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	45K1675 45J7915 57Y4393 GA) 45K1636 DVI)45K1635 43R1765 45K1669 esguide	Supports ThinkVantage® technologies GREENGUARD® certified RoHS-compliant Limited Warranty¹ 3-year parts and labor International Warranty Service® Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

ThinkCentre® M58p Eco Ultra Small (9961) - TopS (XP with Win 7 License) Personal Systems Reference (PSREF)

Slot x Name Type-model bay		GHz (Cores	Memory	SATA 8 disk	SATA optical	Graphics		DisplayPort dongle	ENERGY STAR 5.0			Globa Educ	
M58p 9961-AKU 1x2	Core 2 Duo E8400	3.00	2	2GB	250GB ²	DVD±RW	GMA	VGA. DF	P None	ES50	vPro	XP Pro	No	Nov 09

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
 This small and medium business (SMB) model is part of the US TopSeller™ Program
 This model has a 3-year limited warranty¹

Positioning Processor		•	Eco Ultra Sn	optical disk					
Memory	2GB std, 4GB max ⁸ , PC3-dual-channel capable, two	8500 1066MHz DDR3, non-parity, 204-pin SODIMM sockets (notebook); ory in one socket; one socket available	Bay ② 3.5",	1.6" high, access, std optical 1" high, no access, std disk rofile, 32-bit PCI 2.3					
Graphics	integrated graphics in Q45 one analog VGA DB-15 col	elerator 4500 (GMA 4500), , uses main memory (up to 1GB), nnector, one DisplayPort™ connector via cable 45J7915), HDCP, DirectX® 10, display	Hinged toolless cover for easy serviceability						
SATA disk SATA controller SATA DVD±RW SATA cables	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DVI	0 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	 Toolless sys 	k and optical drive removal stemboard retention or stand for vertical orientation					
eSATA port Diskette drive Media reader	and one eSATA connector None None None			Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)					
Chipset	Digital Office [ICH10DO] (S	et (PCI Express® 2.0 x16), I/O Controller H BATA 3.0Gb/s with RAID 0/1 support, PCI B, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	security slot and cover release button are combined into one latch for improved chassis security Power-on password					
	Six USB 2.0, ethernet (RJ- Two USB 2.0 planar conn (Line-in (stereo, 3.5mm), lin High Definition (HD) Audio, One internal speaker for bu	Intel 82567LM, Wake on LAN®, ASF2.0, I	ear USB ports) o, 3.5mm)	Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Individual USB port disablement					
Modem Security chip	None	Keeper™ Trusted Platform Module, TCG 1.	.2-compliant	Supports ThinkVantage® technologies					
Keyboard Mouse Power supply	Optical Wheel Mouse (USE	rd (USB connector), 104-key, black, Leno 3 connector), 400 dpi, black, Lenovo logo 30 watts, autosensing, 87% PSU	vo® logo	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant					
through downg Windows 7 Professional Professional Rescue and Rescuerity ThinkVantage ThinkVantage McAfee® Virus (30 days of virus Lenovo Syster Adobe® Reade Microsoft® Offi	Professional preinstalled grade rights in Genuine ofessional cations⁵ (only some listed) ecovery™ 'Solution™ Productivity Center System Update Scan® Plus us definitions) in Toolbox er® ce 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC3-8500 DDR3 SODIMM (notebor 2GB PC3-8500 DDR3 SODIMM (notebor 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mot More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	ok) 43R1988 43R1990 45J7918 Prive 41N5620 45J7915 5774393 41R4474 40Y8625 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):⁻ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9195) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378					

Slot x Name Type-model bay	Processor	GHz Core	s Memory	SATA / ⁸ disk	SATA optical	Graphics		DisplayPort dongle	ENERGY STAR 5.0				
M58p 9961-ALU 1x2	Core 2 Duo E8400	3.00 2	2GB	250GB ²	DVD+RW	/ GMA	VGA. DF	P None	ES50	vPro	Pro 32	No .	Jan 10

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
 This small and medium business (SMB) model is part of the US TopSeller™ Program
 This model has a 3-year limited warranty¹

Positioning Processor	Intel [®] Core [™] 2 Duo Proce	and manageability for the enterprise essor E8400 with dual-core, FXT, 1333MHz system bus,	Eco Ultra Sn	optical disk				
Memory	2GB std, 4GB max ⁸ , PC3-dual-channel capable, two	8500 1066MHz DDR3, non-parity, 204-pin SODIMM sockets (notebook); ory in one socket; one socket available	Bay ② 3.5",	, 1.6" high, access, std optical 1" high, no access, std disk Profile, 32-bit PCI 2.3				
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	elerator 4500 (GMA 4500), , uses main memory (up to 765MB), nnector, one DisplayPort™ connector via cable 45J7915), HDCP, DirectX® 10, display	 Business bl 10.8" W X S 275mm W X 9.2 lb (4.2 k) Hinged tool 	lack color; metal case 9.4" D X 3.1" H X 238mm D X 80mm H vg) in maximum configuration lless cover for easy serviceability				
SATA disk SATA controller SATA DVD±RW SATA cables	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DVI	10 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	 Toolless sys 	sk and optical drivé removal stemboard retention or stand for vertical orientation				
eSATA port Diskette drive Media reader	and one eSATA connector None None None	on planar		Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)				
Chipset	Digital Office [ICH10DO] (S	et (PCI Express® 2.0 x16), I/O Controller F BATA 3.0Gb/s with RAID 0/1 support, PCI BB, LPC bus), SMSC® SCH5617 Super I/C	I Express x1, are combined into one latch to					
Rear audio ports Audio Speaker Ethernet	Six USB 2.0, ethernet (RJ- Two USB 2.0 planar conn (Line-in (stereo, 3.5mm), lin High Definition (HD) Audio One internal speaker for bu Gigabit ethernet on planar,	Intel 82567LM, Wake on LAN®, ASF2.0,	ear USB ports) o, 3.5mm)	Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Individual USB port disablement				
Intel AMT Modem Security chip	Intel Active Management T None Winbond® WPCT200 Safel	echnology (ıAMT) Keeper™ Trusted Platform Module, TCG 1	Supports ThinkVantage® technologies					
Keyboard Mouse Power supply	Optical Wheel Mouse (USI	ard (USB connector), 104-key, black, Leno 3 connector), 400 dpi, black, Lenovo logo 30 watts, autosensing, 87% PSU	vo® logo	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant				
Preloaded appli Rescue and R Password Mar ThinkVantage ThinkVantage ThinkVantage Lenovo Online Norton™ Interr (30 days of vir Adobe® Reade Adobe Flash® Microsoft® Offi	cations ⁵ (only some listed) ecovery TM lager System Update Power Manager Toolbox Data Backup net Security 2009 us definitions) er [®] Player ce 2007 Trial (60-day)	Accessories 1GB PC3-8500 DDR3 SODIMM (notebo 2GB PC3-8500 DDR3 SODIMM (notebo 500GB SATA 3.0Gb/s Disk (7200 rpm) TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mot More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	ok) 43R1988 43R1990 45J7918 Prive 41N5620 45J7915 5774393 41R4474 40Y8625 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):⁻ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378				

ıkCentre® M	58	p Eco U	Itra S	Sma	II (7	' 479))							Person	al Syst	ems Refe	erence	(PSRE
Name Type-model	Slot x bay	Process	or	GHz (Cores	Memor	SATA y ⁸ disk	SAT		Graphic	Monitor s conn	Displayl dong		ENERGY STAR 5.0				
M58p 7479-A3U M58p 7479-A6U M58p 7479-A8U M58p 7479-A9U M58p 7479-ABU	1x2 1x2 1x2 1x2 1x2 1x2 1x2	X2											VI-D	ES50 ES50 ES50 ES50 ES50 ES50	vPro vPro vPro vPro vPro	Bus32 Bus32	No No No No	Dec (Dec (Dec (Dec (Dec (Dec (Dec (Dec (Dec (
Positioning Processor	Ultii Inte		, stabil Duo Pr	lity, an	d mai	nageab 3 400 o	oility for the	with du			Eco Ultr	a Small		O	ptical		disk	<u> </u>
Implementation	and	6MB L2 cac cessor in FC	he `		-		•									ı	··· _	
Memory	1GE dua Itali	3 or 2GB std I-channel cap cs: stan	Bay ② 3 Slot 1: Lo	.5", 1" ow Profil	", 1.6" high, access, std optical 1" high, no access, std disk Profile, 32-bit PCI 2.3 black color; metal case													
Graphics DP dongle	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 253MB [1GB models], 765MB [2GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display • 10.8" W • 275mm • 2.75mm • 9.2 lb (• 10.8" W •									V X 9.4" n W X 23 4.2 kg) ii toolless s disk ar	D X : 8mm n ma cove nd op	3.1" H n D X 80 ximum c er for ea	mm H configu sy ser ve rem	ıration viceabili	ity			
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Ser Sor Two and Nor	Some: DisplayPort to Single-link DVI-D Cable 160GB or 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max ⁴ Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors and one eSATA connector on planar None None										• !	Security Security Security Security chip (see information on lees Security slot (in rear for attachmen optional Kensington® MicroSaver® coscurity slot and cover release by a recombined into one latch for improved chassis security					ent of ® cabl butto
Chipset	Digi	el Q45 Expre ital Office [IC ernet MAC, P	H10DC)] (SA	TA 3.0)Ġb/s v	vith RAID	0 0/1 sı	uppo	ort, PCI	Express x	1,	Powe Admi Hard	er-on pas inistrator I disk pas	ssword passv ssword	d word d (user a		aster)
Front ports Rear ports Internal connector Rear audio ports Audio	Six Two Line	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort Two USB 2.0 planar conn (1 used; one open for media reader or Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (st High Definition (HD) Audio, Analog Devices AD1882 codec										•	3oot	sequend without idual US	disket	te, keyb	oard ement	
Speaker Ethernet Intel AMT	One Gig	e internal spe abit ethernet I Active Man	aker fo on pla	r busi nar, Ir	ness itel 82	audio :567LN	l, Wake o			SF2.0,	DASH 1.0	-		rts Think ™ Gold		ge® tech	nolog	ies
Modem Security chip	Nor		Ū			•	,	rm Mod	dule	TCG 1	.2-complia	nt GI	NER(GY STAF NGUARI	R® 5.Ŏ- D® cert		ant	
Keyboard Mouse Power supply	Opt	ferred Pro US ical Wheel M ernal AC/DC	louse (l	USB o	ònne	ctor), 4	00 dpi, b	lack, L	eno	k, Leno vo logo	vo® logo	Ro	HS-	compliar L i		l Warrar	າty¹	
Preloaded oper						sories	- 3,					=	3-ye	ear parts	and la	abor		

- Genuine Windows® Vista® Business 32
- ♦ Vista Premium logo

Preloaded applications⁵

- Rescue and Recovery™
- Client Security Solution™
 ThinkVantage Productivity Center
 ThinkVantage System Update
- ThinkVantage Power Manager
- McAfee® VirusScan® Plus
- (30 days of virus definitions)
- Lenovo System Toolbox
- Adobe® Reader® Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD, DVD±RW)

Accessories

1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987 2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) DVD-ROM DL SATA 1.5Gb/s 16-48X Max 45J7918 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable
DisplayPort to VGA Monitor Cable 45J7915 57Y4393 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M58 sheet

- ✓ International Warranty Service⁹
 ✓ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

Slot x Name Type-model bay	Processor	GHz	Cores	Memory	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle			l Avail date
M58p 7479-AJU 1x2 M58p 7479-AKU 1x2									DP-to-DVI-DP-to-DVI-D			

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
 These models have a 3-year limited warranty¹

Positioning Processor	Intel® Core™ 2 Duo Proc Virtualization Technology, and 6MB L2 cache	and manageability for the enterprise essor E8400 or E8500 with dual-core, TXT, 1333MHz system bus,	Eco Ultra Sn	optical disk			
Implementation	Processor in FC-LGA8 pa		Bov ① 5.25"	, 1.6" high, access, std optical			
Memory	dual-channel capable, two	-8500 1066MHz DDR3, non-parity, 204-pin SODIMM sockets (notebook); nory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3				
Graphics DP dongle	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), i, uses main memory (up to 1GB), nnector, one DisplayPort™ connector, order to the connector of the connector o	• 10.8" W X 9 • 275mm W 2 • 9.2 lb (4.2 k	lack color; metal case 9.4" D X 3.1" H X 238mm D X 80mm H kg) in maximum configuration			
SATA disk SATA controller SATA DVD±RW	160GB, SATA 3.0Gb/s 720 Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	00 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 support D±RW SATA 1.5Gb/s Drive	Toolless dis Toolless sys	lless cover for easy serviceability sk and optical drive removal stemboard retention or stand for vertical orientation			
SATA cables eSATA port Diskette drive	and one eSATA connector None None	drop to device), two SATA connectors on planar		Security Security chip (see information on left) Security slot (in rear for attachment of			
Media reader Chipset		et (PCI Express® 2.0 x16), I/O Controller H SATA 3.0Gb/s with RAID 0/1 support, PCI		optional Kensington® MicroSaver® cable) - security slot and cover release button are combined into one latch for			
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT	Two USB 2.0, microphone Six USB 2.0, ethernet (RJ Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lir High Definition (HD) Audic One internal speaker for b	, Intel 82567LM, Wake on LAN®, ASF2.0, I	improved chassis security Power-on password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Individual USB port disablement				
Modem Security chip	None	Keeper™ Trusted Platform Module, TCG 1.	2-compliant	Supports ThinkVantage® technologies			
Keyboard Mouse Power supply	Optical Wheel Mouse (US	ard (USB connector), 104-key, black, Lenor B connector), 400 dpi, black, Lenovo logo 30 watts, autosensing, 87% PSU	vo® logo	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant			
(preinstalled v Windows Vista Preloaded appli • Rescue and R • Client Security • ThinkVantage • ThinkVantage • McAfee® Virus (30 days of vir • Lenovo Syster • Adobe® Reade • Microsoft® Offi	ows® XP Professional ia downgrade rights in ia Business) ications⁵ ecovery™ r Solution™ Productivity Center System Update Scan® Plus us definitions) in Toolbox er® ce 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC3-8500 DDR3 SODIMM (notebor 2GB PC3-8500 DDR3 SODIMM (notebor 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA DLenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mou DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	bk) 43R1988 43R1990 45J7918 vrive 41N5620 41R4474 4014 40Y8625 45J7915 57Y4393	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			

SATA DisplayPort ENERGY Intel SATA Monitor Avail optical Graphics conn Name Type-model bay Processor GHz Cores Memory STAR 5.0 vPro preload Educ disk dongle date M58p 7479-B9U 1x2 Core 2 Duo E8400 3.00 2 2GB 250GB2 DVD±RW GMA VGA, DP DP-to-DVI-D ES50 vPro Pro 32 None Jan 10 Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) This model has a 3-year limited warranty Positioning Ultimate security, stability, and manageability for the enterprise **Eco Ultra Small** disk Intel® Core™ 2 Duo Processor E8400 with dual-core, optical Processor Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache _ 00 _ Implementation Processor in LGA775 socket Bay 1 5.25", 1.6" high, access, std optic Bay 2 3.5", 1" high, no access, std disk 2GB std, 4GB max8, PC3-8500 1066MHz DDR3, non-parity, Memory dual-channel capable, two 204-pin SODIMM sockets (notebook); Non-italics: standard memory in one socket; one socket available Slot 1: Low Profile, 32-bit PCI 2.3 Intel Graphics Media Accelerator 4500 (GMA 4500). Business black color; metal case
10.8" W X 9.4" D X 3.1" H
275mm W X 238mm D X 80mm H Graphics integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display • 9.2 lb (4.2 kg) in maximum configuration DP dongle DisplayPort to Single-link DVI-D Cable Hinged toolless cover for easy serviceability Toolless disk and optical drivé removal SATA disk 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts • Toolless systemboard retention Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive SATA controller System floor stand for vertical orientation SATA DVD±RW Two SATA cables (each 1-drop to device), two SATA connectors SATA cables Security and one eSATA connector on planar eSATA port Diskette drive None Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) None Media reader None security slot and cover release button Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Chipset are combined into one latch for Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O improved chassis security Power-on password Front ports Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)
Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) Administrator password Hard disk password (user and master) Boot sequence control Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Boot without diskette, keyboard Audio High Definition (HD) Audio, Analog Devices AD1882 codec · Individual USB port disablement Speaker One internal speaker for business audio Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0 Ethernet Intel AMT Intel Active Management Technology (iAMT) Modem Security chip Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Keyboard Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo External AC/DC adapter, 130 watts, autosensing, 87% PSU Mouse Power supply Supports ThinkVantage® technologies Preloaded operating system²⁰ Accessories EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified 1GB PC3-8500 DDR3 SODIMM (notebook) 43R1987 Genuine Windows® 7 Professional 32 2GB PC3-8500 DDR3 SODIMM (notebook) 43R1988 Preloaded applications⁵ 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 RoHS-compliant Rescue and Recovery™ 1TB SATA 3.06b/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Password Manager Limited Warranty¹ ThinkVantage System Update ThinkVantage Power Manager Lenovo Vertical PC and Monitor Stand II 41R4474 3-year parts and labor ThinkCentre Ultra Small Under Desk Mount 40Y8625 International Warranty Service⁹
Customer Replaceable Unit (CRU) ThinkVantage Toolbox DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable 45,17915 Lenovo Online Data Backup Norton™ Internet Security 2009 57Y4393 parts only (with limited onsite service More accessories on O-M58 sheet (30 days of virus definitions) Adobe® Reader® for selected parts3, 8 am - 5 pm, Acc Guide in pdf lenovo.com/accessoriesguide Mon - Fri coverage excluding holidays, Adobe Flash® Player Other accessories at lenovo.com/accessories next business day response time) Microsoft® Office 2007 Trial (60-day) Onsite service upgrade options Roxio® Creator® Business Edition (DVD±RW) (in eligible locations):7 3-year LOR 9x5, 4 hour response Roxio MvDVD® (DVD±RW) (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Slot x Name Type-model bay	Processor	GHz C	ores Memory	SATA ⁸ disk	SATA optical	Graphics		DisplayPort dongle	ENERGY STAR 5.0				(G) Avail P) date
M58p 6136-A1U 1x2	Core 2 Duo E8400	3.00	2 2GB	160GB ²	DVD±RV	V GMA	VGA. DP	None	ES50	vPro	Bus32	GΡ	Dec 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
 This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Intel® Core™ 2 Duo Proc	and manageability for the enterprise essor E8400 with dual-core, TXT, 1333MHz system bus,	Eco Ultra Sn	optical disk				
Memory	2GB std, 4GB max ⁸ , PC3-dual-channel capable, two	-8500 1066MHz DDR3, non-parity, 204-pin SODIMM sockets (notebook); nory in one socket; one socket available	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3					
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), 5, uses main memory (up to 765MB), connector, one DisplayPort™ connector 0 via cable 45J7915), HDCP, DirectX® 10, t display	• 10.8" W X 9 • 275mm W 2 • 9.2 lb (4.2 k • Hinged tool	lack color; metal case 9.4" D X 3.1" H X 238mm D X 80mm H kg) in maximum configuration lless cover for easy serviceability				
SATA disk SATA controller SATA DVD±RW SATA cables	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV Two SATA cables (each 1-	DO rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors	 Toolless sys 	sk and optical drive removal stemboard retention or stand for vertical orientation Security				
eSATA port Diskette drive Media reader	and one eSATA connector None None None	on planar		Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)				
Chipset	Digital Office [ICH10D0] (ethernet MAC, PCI 2.3, US	et (PCI Express® 2.0 x16), I/O Controller H SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	security slot and cover release button are combined into one latch for improved chassis security Power-on password				
Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, ethernet (RJ Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lin High Definition (HD) Audic One internal speaker for b Gigabit ethernet on planar Intel Active Management T None Winbond® WPCT200 Safe	r, Intel 82567LM, Wake on LAN®, ASF2.0, I Technology (iAMT) Keeper™ Trusted Platform Module, TCG 1.	ear USB ports) o, 3.5mm) DASH 1.0 2-compliant	Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Individual USB port disablement Chassis intrusion switch				
Keyboard Mouse Power supply	Optical Wheel Mouse (US	ard (USB connector), 104-key, black, Leno B connector), 400 dpi, black, Lenovo logo I30 watts, autosensing, 87% PSU	vo® logo	Supports ThinkVantage® technologies				
♦ Vista Premium	ows® Vista® Business 32 n logo	Accessories 1GB PC3-8500 DDR3 SODIMM (notebook 2GB PC3-8500 DDR3 SODIMM (notebook 500GB SATA 3.0Gb/s Disk (7200 rpm)		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant				
 ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi 	ecovery™ r Solution™ Productivity Center System Update Power Manager Scan® Plus us definitions) n Toolbox er® ce 2007 Trial (60-day) r® Business Edition	1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA D DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mon More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	45J7918 Prive 41N5620 45J7915 57Y4393 41R4474 unt 40Y8625 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378				

Name Type-model	Slot x bay	Processor	GHz	Cores	Memory	SATA 8 disk	SATA optical	Graphics		DisplayPors dongle		Preload	Global Educ	Avail date
M58p 9964-A7U M58p 9964-A8U	• Intel Co • These		with vi m bus	iness ((SMB) m	320GB gy (inclusiodels are		GMA ctive Ma		P None <i>Technolog</i>	vPro	XP Pro XP Pro		
Positioning Processor Implementation Memory Graphics	Ultimate s Intel® Cor Virtualizat and 6MB Intel Core Virtualizat and 6MB Processor 2GB or 40 non-parity Italics: Non-italics	security, stability, re™ 2 Duo Proc tion Technology, L2 cache or e 2 Quad Proce tion Technology,	and messor CTXT, 1 ssor CTXT, 1 ket x8, PC apable nory in	333MH 39400 333MH 3-8500 9, four 2 two so	eability for our or our or our our our our our our	or the ential-core, m bus, ad-core, m bus, m	3, ckets; ts available	Bay @ Bay @ Bay @ Slot 1 Slot 2 • Bus • 12.5 • 317	5.25", 1. 3.5", 1' 3.5", .5 Low Profices blace " W X 14. mm W X 3	.6" high, ac " high, no " high, ac file, PCI Ex file, 32-bit f k color; me 0" D X 3.9" 3) in maxim	access cess, press 2 PCI 2.3 etal case ' H	std opti std disk open (r .0 x16	k reader)	
SATA disk	one analo (supports supports of 250GB or	d graphics in Q45 og VGA DB-15 co single-link DVI-I dual independen 320GB, SATA 3	onnector onnector or via control of display	main or, one able 49 ay 3 7200	memory Display 5J7915) rpm, vib	y (up to 10 yPort™ co , HDCP, I pration da	onnector DirectX® 10	• Tool • Tool • Tool • Tool • Sys	less cove less disk, less adap less syste	r flips up ar optical driv ter retenticemboard re stand for ve	nd tilts b ve remo n tention	ackward val	on rear	r hinges
SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Super Mu Two SATA	A, SATA 3.0Gb/s, Ilti-Burner DL DV cables (each 1- rnal SATA (eSAT/	D±RW drop to	/ SATA o devid	1.5Gb/s	s Drive				 Security Security optional I optional 	chip (se slot (in i Kensing il cable	ear for atton® Micr	ttachme oSaver s the co	ent of ® cable) over by
Chipset	Digital Off	Express Chips fice [ICH10DO] (MAC, PCI 2.3, U	SATA :	3.0Ġb/	s with R	AID 0/1 s	support, PC	I Expres	SXI,	Power-orAdministHard disk	n passw rator pa	ord ssword		
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2 eSATA r Two USB Line-in (st High Defir One inter Gigabit et Intel Activ None	2.0, microphone 2.0, serial (9-pin) 2.0 planar conn tereo, 3.5mm), linition (HD) Audio nal speaker for b hernet on planar we Management	, ether (1 use ne-out o, Anal usines r, Intel Techno	rnet (R d; one (stere og Dev ss audi 82567 blogy (i	J-45), m open fo o, 3.5mn vices AD o LM, Wal AMT)	nonitor (V r media r n), micro 11882 coo ke on LAI	GA DB-15, reader or 2 phone-in (s dec N®, ASF2.0	Displayl rear USI tereo, 3.	Port), 3 ports) 5mm)	Boot seqBoot withSerial poIndividua	out disk rt I/O co	ette, key ontrol		
Keyboard Mouse Power supply	Optical W	Pro USB Keybo heel Mouse (US with variable sp	B cònr	nector)	, 400 dp	i, black, l	Lenovo log	ວ	-	Supports T			chnolog	jies
Preloaded oper - Windows® XP through down- Windows 7 Pr Preloaded appl - Rescue and F - Client Security - ThinkVantage - McAfee® Virus (30 days of virus - Lenovo Syster - Adobe® Read - Microsoft® Off - Roxio® Creato (DVD±RW) - Roxio MyDVD - Corel® WinDV	Profession grade rights ofessional ications⁵ (In Recovery™ Productivit System Up Scan® Plus rus definitio m Toolbox er® ice 2007 Tr rr® Busines: ® (DVD±RV	nal preinstalled s in Genuine only some listed by Center odate s ons)	1GB 2GB 5000 1TB Supe Displ Displ ATI™ NVIE NVIE More	PC3-8 BB SATA C SATA C er Multi layPort layPort Rade DIA® Q DIA Qu e acces Guide	500 DD 500 DD A 3.0Gb/s i-Burner to Sing to VGA on™ HD uadro® 2 adro 256 ssories o	Disk (720 DL DVD: le-link DV Monitor 3470 25 256MB NV 6MB FX 3 on O-M58 novo.coi	IM 7200 rpm) 00 rpm) ±RW SATA /I-D Cable Cable 6MB (DP, \ VS 290 370 LP	45 45 Drive 41 45 57 (GA) 45 43 55	J5434 J5435 J7918 N5620 J7915 Y4393 JK1636 JR1765 Y9275	3-year platernate of the comparts or for selection Mon - From the comparts or for selection of the comparts or for selection	Limite varts and ional Water Replaint (with ted pair if cover siness of the cover siness of the cover siness of the cover siness of the cover of the cover siness of the cover	d Warrard labor arranty Saceable L limited cts³, 8 am age exclulary responsant number 4x7, 4 ho ort number 4x7, 4	ervice ⁹ Jnit (CR) Jnit (nse plidays, ne) nse pligay onse gay gay gay onse gay gay onse gay

Name	Type-model	Slot x bay	Proces	sor	GHz	Cores	Memory	SATA 8 disk	SATA optical	Graphic	Monite s connect	or Display ors dong	Port Intel le vPro	Win7 preload	Global Educ	Avail date
M58p	9964-ACU	2x3	Core 2 Duo Core 2 Qua Core 2 Duo	d Q9400	3.00 2.66 3.00	2 4 2	2GB 4GB 4GB	320GB	DVD±RW DVD±RW DVD±RW	GMA	VGA, I VGA, I VGA, I	OP Non	e vPro	Pro 32 Pro 32 Pro 64	None	Jan 10 Jan 10 Mar 10
		 TI 	itel Core 2 Pr hese small a hese models	nd mediur	n bus	siness	(SMB) m	odels ar					ogy)			
Position Proces	sor	Intel Virtu and Intel Virtu and	nate security, © Core™ 2 E lalization Tec 6MB L2 cach Core 2 Qua lalization Tec 6MB L2 cach	Duo Proce thnology, The or ad Proces thnology, The	ssor TXT, s sor (E8400 1333M 29400) with du Hz syste with qu a	ial-core, m bus, ad-core,	terprise	Bay 0	① 5.25", ② 3.5 <u>"</u> ,	1.6" high, a 1" high, 1 .5" high, 4	no access	std op		
Implem Memor	у	2GB non- Italic	essor in LGA or 4GB std parity, dual-ces: stand -italics: stand	, 8GB max channel ca dard mem	κ ⁸ , PC apable ory ir	e, four i two s	240-pin ockets; t	DIMM so wo socke	ckets; ets available	Slot 1 Slot 2 • Bus • 12.9	I: Low Pr 2: Low Pr siness bla 5" W X 14	ofile, PCI E ofile, 32-bi ack color; r 4.0" D X 3.	Express 2 t PCI 2.3 netal case 9" H	.0 x16		
Graphi		integ (up t one (sup	Graphics National Graphics of 765MB [20] analog VGA ports single- ports dual inc	cs in Q45 GB models DB-15 col link DVI-D	, uses s] or nnect via c	s main 1759M tor, one able 4	memory B <i>[4GB i</i> e Display	<i>ı models]</i>), ıPort™ co	nnector	• 16.9 • Too • Too • Too • Too	5 lb (7.5 lless cov lless disk lless ada lless sys	kg) in max er flips up k, optical d pter retent temboard stand for	imum con and tilts b rive remo tion retention	figuratio ackward val	l on rea	r hinges
	controller DVD±RW cables port e drive	Seria Supa Two		3.0Gb/s, er DL DVI (each 1-c	integ D±RV drop t	rated in V SATA o device	n İCH10I \ 1.5Gb/s	DO, RAID S Drive	0 0/1 suppo	ort		 Securit optional optional deac 	y chip (se y slot (in I Kensing nal cable tivating th	rear for a ton® Mic also lock e cover i	ttachmeroSaver	ent of ® cable) over by
Chipse		Digit	Q45 Expres al Office [ICI rnet MAC, P	H10DO] (S	AŤA	3.0Gb	/s with R	AID 0/1 s	support, PC	I Expre		Power-on password Administrator password Hard disk password (user and master Boot sequence control				aster)
	orts Il connector udio ports er	Six U eSA Two Line- High One	USB 2.0, mid JSB 2.0, serita ISB 2.0 plate in (stereo, 3) Definition (hinternal spendit ethernet	ial (9-pin), nar conn (.5mm), lin HD) Audio, aker for bu	ethe 1 use e-out Ana usine	rnet (F ed; one t (stere log De ss aud	RJ-45), m copen for co, 3.5mr vices AD io	nonitor (V or media i n), micro 01882 co	GA DB-15, reader or 2 phone-in (s dec	Display rear US stereo, 3	B ports) .5mm)	 Serial p 	ithout disk bort I/O co ual USB p	ontrol		
Intel Al Moden	MT n	Intel None	Active Mana e	igement To	echn	ology (iAMT)					Supports	ThinkVar	ntage® te	chnolog	gies
Securit Keyboa Mouse	ard	Prefe Optio	oond® WPCT erred Pro US cal Wheel Mo	BB Keyboa ouse (USE	ırd (U 3 con	SB co nector	nnector)), 400 dp	, 104-key oi, black,	, black, Ler Lenovo log	novo® log		GREENO RoHS-co	GUARD® ompliant	certified		
- Soil - Soil - Soil - Prelo - Res - Pas - Thi - Thi - Thi - Ler - Noil - Add - Add - Mic - Rooil - (DV	aded opera me: Genuin Profess me: Genuin Profess aded appli scue and Ressword Man nkVantage ! nkVantage ! nkVantage ! novo Online rton™ Interr days of viru des Gester en de be Flash® !	ating e Will e W	ndows® 7 I 32 ndows 7 I 64 ons⁵ (only so ery™ em Update er Manager iox a Backup ecurity 2009 efinitions) er 007 Trial (60- siness Editio	me listed)	Acc 1GB 2GB 5000 1TB Sup Disp Disp ATIT NVII NVII More	essori PC3-4 PC3-4 GB SATA er Multi layPor PRAGE DIA® Q DIA Que acce Guide	es 8500 DD 7A 3.0Gh 3.0Gh/s i-Burner t to Sing t to VGA con™ HD uadro® 2 ladro 25 ssories c in pdf le	R3 UDIM R3 UDIM D/s Disk (72) DL DVD Ie-link DV Monitor 3470 25 256MB N 6MB FX on O-M58	MM 7200 rpm) 00 rpm) ±RW SATA /I-D Cable Cable 6MB (DP, \ VS 290 370 LP	4: 4: 4: Drive 4: 4: 55 /GA) 4: 4: 5: riesguid	5J7915 7Y4393 5K1636 3R1765 5Y9275	□ Intern □ Custo parts for se Mon - next b □ Onsite (in elie) • 3-ye (Thi) • 4-ye (Thi) • 4-ye (Thi) □ Think lenow □ Post w servic □ 24 hor	Limite parts an ational Ware mer Replaced par lected par Fri cover susiness of e service of part LOR 9 nkPlus par ear LOR 9 nkPlus par	arranty Saceable la limited tas, 8 arranty Saceable la limited tas, 8 arranta age excluday responsor to the saceable la limited to saceable la limited to saceable la limited la	Service ⁹ Unit (CF onsite s n - 5 pm uding h onse tim options ur responder 41C91 Busineer 41C91 ur responde	RU) service solidays, ne) sonse 192) onse 93) ss Day 94) onse 95) onse

Name Type-model	Slot x bay Processor	GHz Cores Memor	SATA y ⁸ disk	SATA optical (Graphic	Monitor s conn					Vista Glob reload Edu	
M58p 7483-AFU ✓ M58p 7483-ACU M58p 7483-ACU ✓ M58p 7483-AGU M58p 7483-AGU ✓ M58p 7483-AJU M58p 7483-AKU ✓ M58p 7483-AKU M58p 7483-ALU M58p 7483-AMU	2x3 Core 2 Duo E8400 2x3 Core 2 Duo E8400 2x3 Core 2 Duo E8400 2x3 Core 2 Duo E8400 2x3 Core 2 Duo E8400 2x3 Core 2 Duo E8400 2x3 Core 2 Duo E8500 2x3 Core 2 Duo E8500 2x3 Core 2 Duo E8500 2x3 Core 2 Duo E8500 2x3 Core 2 Duo E8500 2x3 Core 2 Quad Q9400 • Intel Core 2 Processo • These models have a	3.00 2 1GB 3.00 2 1GB 3.00 2 2GB 3.00 2 2GB 3.00 2 2GB 3.16 2 1GB 3.16 2 2GB 3.16 2 2GB	250GB	DVD±RW DVD±RW DVD±RW DVD±RW DVD DVD DVD DVD±RW DVD±RW DVD±RW DVD±RW	GMA GMA GMA GMA GMA 3470 GMA 3470 3470	VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP	DP-to- DP-to- DP-to- DP-to- DP-to-	DVI-D DVI-D DVI-D DVI-D DVI-D	Switch	vPro E	Bus32 Bus32 Bus32 Bus32 Bus32 Bus32 Bus32 Bus32 Bus32	Nov C Nov C Nov C Nov C Nov C Nov C Nov C Nov C
Positioning Processor	Ultimate security, stabili Intel® Core™ 2 Duo Pro					Small			optio	cal	disk	
	Virtualization Technolog and 6MB L2 cache or Intel Core 2 Quad Prod Virtualization Technolog and 6MB L2 cache	y, TXT, 1333MHz s cessor Q9400 with y, TXT, 1333MHz s	ystem bus quad-cor ystem bus	s, r e ,	,	Bay ① 5.2 Bay ② 3.9 Bay ③ 3.9	5", 1"	high,	access, no acce	ss, sto	d optical d disk en (reade))
Implementation Memory	1GB or 2GB std, 8GB r			1B3		Slot 1: Lov	w Profil	le, PCI	Express	2.0 x1	•	,
wemory	non-parity, dual-channe	l capable, four 240- emory in two socke	pin DIMM ets; two so	sockets; ckets ava	ailable;	* used in : • Busines	some r	nodels				
Graphics	Some: Intel Graphics integrated graph (up to 253MB [1 one analog VGA HDCP, DirectX® Some: ATI™ Radeon™ 256MB, one ana	Media Accelerator ics in Q45, uses m GB models], 765M DB-15 connector, 10, supports dual i	r 4500 (GM ain memo B [2GB mone Display one Display independentess® 2.0 connector, o	MA 4500) ory odels]), ayPort™ ent display x16 adap ne Displa	conn, y oter,	 12.5" W 317mm 16.5 lb (Toolless Toolless Toolless Toolless System 	W X 35 (7.5 kg) s cover s disk, o s adapte s syster	55mm l in max flips up optical er reter nboard	D X 99m ximum co and tilts drive ren ntion	onfigur s backv noval n	ward on re	ar hinge
DP dongle	Some: DisplayPort to S	ingle-link DVI-D Ca	able		•			_		Securit	•	
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	160GB or 250GB, SATA Serial ATA, SATA 3.0Gb Some: DVD-ROM DL S Some: Super Multi-Bur Two SATA cables (each One external SATA (eSA None	/s, integrated in ICI SATA 1.5Gb/s 16-46 ther DL DVD±RW S 1-drop to device),	H10DO, R. BX Max⁴ D BATA 1.5G	AID 0/1 s rive b/s Drive	support			Secur option - option dead Power Admin	ity slot (ii al Kensir onal cabl ctivating r-on pass iistrator p	n rear fington® le also the core	formation of for attachn MicroSave locks the ver release ord (user and r	nent of er® cable cover by e button
Chipset	Intel Q45 Express Chi Digital Office [ICH10DO ethernet MAC, PCI 2.3,] (SATA 3.0Gb/s wi	th RAID 0	/1 suppo	rt, PCI	Express x	•	Boot s Boot v Serial	equence vithout d port I/O	e contro iskette contro	ol , keyboard	ŕ
Front ports Rear ports	Two USB 2.0, micropho Six USB 2.0, serial (9-p eSATA						t), •	Some	: Chassis	s intrus	sion switch	
Rear audio ports Audio	Two USB 2.0 planar cor Line-in (stereo, 3.5mm) High Definition (HD) Au	line-out (stereo, 3. dio, Analog Device	.5mm), mic	crophone	or 2 re e-in (ste	ear USB po ereo, 3.5mr	m) c	REEN	GUARD ompliant	® certif	e® technolo ïed	gies
Speaker Ethernet Intel AMT Modem	One internal speaker fo Gigabit ethernet on plar Intel Active Managemer None	nar, Intel 82567LM,		LAN®, AS	SF2.0,	DASH 1.0				ted Wa	arranty¹	
Security chip	Winbond® WPCT200 Sa	<u>'</u>					nt 🛭 🚄	Inter	national '	Warrar	nty Service ble Unit (C	
Keyboard Mouse Power supply	Preferred Pro USB Keyl Optical Wheel Mouse (U 280 watts with variable	JSB connector), 40	0 dpi, blac	ck, Ĺenov	o logo	J		parts for se	only (wi	ith limi parts³, 8	ted onsite 8 am - 5 pr excluding	service n,
Preloaded oper	ating system ²⁰ ows® Vista® Business 32	Accessories 1GB PC3-8500	י טטשט ו זר	NIMIC		15 I51	134 =	next	business	s day r	esponse ti ade optior	me)
 ♦ Vista Premium Preloaded appli • Some: Educa - VitalSource™ - Adobe® Elem - Photoshop - Premiere E • Rescue and R • Client Security • ThinkVantage • Microsoft® Offi • Roxio® Creato (DVD±RW) • Roxio MyDVD® 	a logo ications ⁵ (only some liste ition software ¹ Library School Edition tents Elements 6 elements 4 ecovery™ r Solution™ Productivity Center ce 2007 Trial (60-day) r® Business Edition © (DVD±RW)	2GB PC3-8500	DDR3 UE .0Gb/s Disk b/s Disk (SATA 1.5G rner DL D\ Single-link /GA Monit 0 3470 256 ro® 256MB F ies on O-N df lenovo.	DIMM sk (7200 r 7200 rpn db/s 16-4 VD±RW 5 DVI-D C tor Cable MB (DP, NVS 29 FX 370 LF M58 shee com/acc	h) / 8X Max SATA D cable VGA) 00 et essorie	rive 41N56 45J79 57Y43 45K16 43R17 55Y92	990 918 618 620 915 393 636 765 275	(in el • 3-y (Th • 3-y (Th • 4-y (Th • 4-y (Th • 10-y (Th • 10-y (Th • 10-y (Th • 24-y (Th • 24-y (Th	igible loc rear LOR ninkPlus prear LOR	cations 9x5, 4 part n 24x7, part nuit 9x5, N part nuit 9x5, N part nuit 9x5, 4 part nuit 24x7, part nuit rvices ninkplus ay14 tol	hour resp hour resp aumber 410 4 hour res mber 4109 lext Busin mber 4109 4 hour resp mber 4109 at s/warranty Il-free supplements	onse (9192) ponse 193) ess Day 194) onse 195) ponse
	D® (DVD, DVD±RW)							via 8	00-426-7	3/0		@ Leno

Slot x Name Type-model bay Processor	GHz	Cores	Memory	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Preload	Global Educ	Avail date
M58p 7483-B1U 2x3 Core 2 Duo E8400 M58p 7483-B2U 2x3 Core 2 Duo E8500	3.00 3.16	_			DVD±RW DVD±RW			DP-to-DVI-D DP-to-DVI-D				

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
 These models have a 3-year limited warranty¹

Positioning Processor	Intel® Core™ 2 Duo Prod	a, and manageability for the enterprise ressor E8400 or E8500 with dual-core, TXT, 1333MHz system bus,	Small	optical disk (in rear) 1.6" high, access, std optical			
Memory	2GB std, 8GB max ⁸ , PC3 non-parity, dual-channel		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reade Slot 1: Low Profile, PCI Express 2.0 x16				
Graphics DP dongle	integrated graphics in Q4 one analog VGA DB-15 c	celerator 4500 (GMA 4500), 5, uses main memory (up to 1GB), onnector, one DisplayPort™ connector, orts dual independent display DVI-D Cable	Slot 1: Low Profile, 32-bit PCI 2.3 Business black color; metal case 12.5" W X 14.0" D X 3.9" H 317mm W X 355mm D X 99mm H 16.5 lb (7.5 kg) in maximum configuration				
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL D\ Two SATA cables (each 1 One external SATA (eSAT None	00 rpm, vibration dampening mounts, integrated in ICH10DO, RAID 0/1 /D±RW SATA 1.5Gb/s Drive -drop to device), two SATA connectors A) port	Toolless disToolless adaToolless sys	ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention r stand for vertical orientation			
Media reader Chipset	None	set (PCI Express® 2.0 x16), I/O Controller	Hub 10	Security • Security chip (see information on left)			
Chipset	Digital Office [ICH10D0]	(SATA 3.0Gb/s with RAID 0/1 support, PC SB, LPC bus), SMSC® SCH5617 Super I/	l Express x1,	Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) optional cable also locks the cover by			
Rear audio ports Audio Speaker Ethernet Intel AMT	Six USB 2.0, serial (9-pin eSATA Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audi One internal speaker for h	r, Intel 82567LM, Wake on LAN®, ASF2.0,	deactivating the cover release buttons Power-on password Administrator password				
Modem Security chip	None Winbond® WPCT200 Safe	eKeeper™ Trusted Platform Module, TCG	1.2-compliant				
Keyboard Mouse Power supply	Optical Wheel Mouse (US	oard (USB connector), 104-key, black, Lenos B connector), 400 dpi, black, Lenovo logo beed fan, autosensing, two diagnostic LED)	Compared Third Market of the share leaves			
Preloaded oper	ating system ²⁰	Accessories		Supports ThinkVantage® technologies			
	ows® XP Professional ia downgrade rights in	1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM	45J5434 45J5435	GREENGUARD® certified RoHS-compliant			
Windows Vista Preloaded appl Rescue and R Client Security ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi	® Business) ications⁵ ecovery™ r Solution™ Productivity Center System Update Scan® Plus us definitions) n Toolbox er® ce 2007 Trial (60-day) r® Business Edition	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VI NVIDIA® Quadro® 256MB NVS 290 NVIDIA Quadro 256MB FX 370 LP More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	43R1990 45J7918 Drive 41N5620 45J7915 57Y4393 GA) 45K1636 43R1765 55Y9275 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378			

Slot x Name Type-model bay Processor	GHz	Cores Memory	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
M58n 7483-BBIT 2x3 Core 2 Duo E8400	3.00	2 2GB	250GB ²	DVD+RW	GMA	VGA DP	DP-to-DVI-D	vPro	Pro 32	None	.lan 10

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
 This model has a 3-year limited warranty¹

Positioning Processor	Intel® Core™ 2 Duo Proc	and manageability for the enterprise essor E8400 with dual-core, TXT, 1333MHz system bus,	Small	optical disk (in rear)
Memory	2GB std , 8GB max ⁸ , PC3 non-parity, dual-channel contracts		Bay ② 3.5", Bay ③ 3.5",	1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express 2.0 x16
Graphics DP dongle	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), 5, uses main memory (up to 765MB), onnector, one DisplayPort™ connector, orts dual independent display DVI-D Cable	Slot 2: Low Pr • Business bla • 12.5" W X 1 • 317mm W X	ofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H kg) in maximum configuration
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive	Serial ATA, SATA 3.0Gb/s. Super Multi-Burner DL DV Two SATA cables (each 1- One external SATA (eSAT. None	00 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 (D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors A) port	Toolless dislToolless adaToolless sys	ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention r stand for vertical orientation
Media reader Chipset	Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller SATA 3.0Gb/s with RAID 0/1 support, PC SB, LPC bus), SMSC® SCH5617 Super I/	I Express x1,	Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) optional cable also locks the cover by
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip Keyboard Mouse Power supply	Six USB 2.0, serial (9-pin) eSATA Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for be Gigabit ethernet on planal Intel Active Management None Winbond® WPCT200 Safe Preferred Pro USB Keybo Optical Wheel Mouse (US	r, Intel 82567LM, Wake on LAN®, ASF2.0,	deactivating the cover release buttons Power-on password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement	
Preloaded oper - Genuine Wind	ating system ²⁰ ows® 7 Professional 32	Accessories 1GB PC3-8500 DDR3 UDIMM	45J5434	Supports ThinkVantage® technologies
• Rescue and R • Password Mar	ecovery™	2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm)	45J5435 43R1990 45J7918	GREENGUARD® certified RoHS-compliant
 ThinkVantage ThinkVantage ThinkVantage Lenovo Online Norton™ Interr (30 days of vir Adobe® Reade Adobe Flash® Microsoft® Offi 	System Update Power Manager Toblex Data Backup net Security 2009 us definitions) er® Player ce 2007 Trial (60-day) ® Business Edition	Super Multi-Burner DL DVD±RW SATA I DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VINVIDIA® Quadro® 256MB NVS 290 NVIDIA Quadro 256MB FX 370 LP More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessories at lenovo.com/accessoriother accessoriother accessorionher accessoriother accessoriother accessoriother accessoriother	45J7915 57Y4393 GA) 45K1636 43R1765 55Y9275	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):³ 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

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Name Type-model	Slot x bay Processor G	SATA Hz Cores Memory ⁸ disk	SATA optical Graphic		splayPort ENERGY Intel dongle STAR 5.0 vPro p	
M58p 7220-A7U M58p 7220-A8U < M58p 7220-A9U	2x3 Core 2 Duo E8500 3 2x3 Core 2 Duo E8500 3 2x3 Core 2 Duo E8500 3 • Intel Core 2 Processor	.00 2 2GB 250GB .16 2 1GB 250GB .16 2 2GB 250GB .16 2 2GB 250GB with vPro [™] Technology (DVD 3470 DVD GMA DVD 3470 DVD±RW GMA	VGA, DP VGA, DP DF VGA, DP DF	P-to-DVI-D ES50 vPro E ES50 vPro E P-to-DVI-D ES50 vPro E P-to-DVI-D ES50 vPro E	Bus32 No Nov 08 Bus32 No Nov 08
Positioning	These models have a 3 Ultimate accurity stability	<u> </u>	a antarpria			
Positioning Processor	Ultimate security, stability, Intel® Core™ 2 Duo Proc Virtualization Technology, and 6MB L2 cache	eessor E8400 or E8500 v TXT, 1333MHz system b	with dual-core , ous,	Small	optical	disk (in rear)
Implementation	Processor in FC-LGA8 pa			Bay ① 5.25",	1.6" high, access, std 1" high, no access, std	optical
Memory	1GB or 2GB std, 8GB manon-parity, dual-channel of ltalics: standard mer Non-italics: standard mer	capable, four 240-pin DIM nory in two sockets; two	IM sockets; sockets available;	Bay ③ 3.5", Slot 1: Low P		en (reader)
Graphics DP dongle	Some: Intel Graphics Mintegrated graphic (up to 253MB [16] one analog VGA I HDCP, DirectX® 1 Some: ATI™ Radeon™ H 256MB, one analog connector, HDCP, Some: DisplayPort to Sin	16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear him.				
SATA disk	160GB or 250GB , SATA 3	3.0Gb/s 7200 rpm, vibrat	ion dampening		stemboard retention or stand for vertical orienta	tion
SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s Some: DVD-ROM DL SA Some: Super Multi-Burn Two SATA cables (each 1 One external SATA (eSAT None None	, integrated in ICH10DO, TA 1.5Gb/s 16-48X Max er DL DVD±RW SATA 1.9 drop to device), two SAT	RAID 0/1 1 Drive 5Gb/s Drive	olanar	• Security chip (see info • Security slot (in rear for optional Kensington® I • optional cable also deactivating the cov	ormation on left) or attachment of MicroSaver® cable) ocks the cover by
Chipset	Intel Q45 Express Chips Digital Office [ICH10DO] ethernet MAC, PCI 2.3, U	(SATA 3.0Gb/s with RAID	0/1 support, PCI	Express x1,	Power-on password Administrator passwo Hard disk password (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	user and master)
Front ports Rear ports	Two USB 2.0, microphone Six USB 2.0, serial (9-pin eSATA), ethernet (RJ-45), moni	tor (VĠA DB-15, [DisplayPort),	 Boot without diskette, Serial port I/O control Individual USB port di 	keyboard
Rear audio ports Audio Speaker	r Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audi One internal speaker for b	ne-out (stereo, 3.5mm), o, Analog Devices AD18	microphone-in (ste		Supports ThinkVantage	® technologies
Ethernet Intel AMT Modem	Gigabit ethernet on plana Intel Active Management None	r, Intel 82567LM, Wake o	on LAN®, ASF2.0,	DASH 1.0	Climate Savers®-compli EPEAT™ Gold rating	
Security chip Keyboard Mouse	Winbond® WPCT200 Safe Preferred Pro USB Keybo Optical Wheel Mouse (US	ard (USB connector), 10	4-key, black, Lenc	ovo® logo	ENERGY STAR 5.0-cor GREENGUARD® certifi RoHS-compliant	
Power supply	280 watts with variable sp				Limited Wa	rrantv¹
 Vista Premium Preloaded appl Rescue and R Client Security ThinkVantage ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi Roxio® Creato (DVD±RW) Roxio MyDVD 	lows® Vista® Business 32 n logo ications⁵ lecovery™ / Solution™ Productivity Center System Update Power Manager Scan® Plus rus definitions) m Toolbox er® ice 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC3-8500 DDR3 2GB PC3-8500 DDR3 500GB SATA 3.0Gb/s Dis DVD-ROM DL SATA 1. Super Multi-Burner DL DisplayPort to Single-li DisplayPort to VGA Mc ATI Radeon HD 3470 2 NVIDIA® Quadro® 256M More accessories on C Acc Guide in pdf lenov Other accessories at le	UDIMM Disk (7200 rpm) k (7200 rpm) k (7200 rpm) SGD/s 16-48X Ma. DVD±RW SATA D nk DVI-D Cable nitor Cable 2566MB (DP, VGA) MB NVS 290 B FX 370 LP 0-M58 sheet co.com/accessorie	Orive 41N5620 45J7915 57Y4393 45K1636 43R1765 55Y9275 esguide	next business day re Onsite service upgra (in eligible locations 3-year LOR 9x5, 4	ty Service® ple Unit (CRU) ed onsite service eam - 5 pm, excluding holidays, esponse time) ade options p: hour response umber 41C9192) thour response aber 41C9193) ext Business Day aber 41C9194) hour response aber 41C9195) hour response aber 41C9196) thour response
					via 800-426-7378	

DisplayPort ENERGY Intel Global dongle STAR 5.0 vPro Preload Educ SATA SATA Monitor Global Avail Slot x optical Graphics conn Name Type-model bay Processor GHz Cores Memory⁸ disk dongle date

M58p 7220-AGU 2x3 Core 2 Duo E8400 3.00 2 2GB 160GB2 DVD±RW GMA VGA, DP DP-to-DVI-D ES50 vPro XP Pro No Apr 09

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- This model has a 3-year limited warranty

Positioning Processor	Intel® Core™ 2 Duo Proc	and manageability for the enterprise essor E8400 with dual-core, TXT, 1333MHz system bus,	Small	optical disk (in rear)			
Memory	2GB std, 8GB max ⁸ , PC3 non-parity, dual-channel c		Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16				
Graphics DP dongle	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), 5, uses main memory (up to 1GB), onnector, one DisplayPort™ connector, orts dual independent display DVI-D Cable	Slot 1: Low Profile, PCI Express 2.0 x16 Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration				
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s. Super Multi-Burner DL DV	00 rpm, vibration dampening mounts, integrated in ICH10DO, RAID 0/1 /D±RW SATA 1.5Gb/s Drive drop to device), two SATA connectors A) port	Toolless disToolless adaToolless sys	ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention r stand for vertical orientation Security			
Chipset	Intel Q45 Express Chips Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller SATA 3.0Gb/s with RAID 0/1 support, PC SB, LPC bus), SMSC® SCH5617 Super I/	I Express x1,	Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)			
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, serial (9-pin) eSATA Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for b Gigabit ethernet on planal Intel Active Management None	r, Intel 82567LM, Wake on LAN®, ASF2.0 Technology (iAMT)	DisplayPort), rear USB ports) tereo, 3.5mm) , DASH 1.0	optional cable also locks the cover by deactivating the cover release buttons Power-on password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement			
Keyboard Mouse Power supply	eyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Len Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo			Supports ThinkVantage® technologies Climate Savers®-compliant EPEAT™ Gold rating			
Preloaded operating system ²⁰ - Genuine Windows® XP Professional (preinstalled via downgrade rights in		Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM	45J5434 45J5435	EPEAT GOID Fathing ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant			
Windows Vista Preloaded appli	,	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm)	43R1990 45J7918	Limited Warranty ¹			

- Preloaded applications⁵
 Rescue and Recovery[™]
- Client Security Solution™
 ThinkVantage Productivity Center
- ThinkVantage System Update McAfee® VirusScan® Plus
- (30 days of virus definitions) Lenovo System Toolbox
- Adobe® Reader®
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

Super Multi-Burner DL DVD±RW SATA Drive 41N5620
DisplayPort to Single-link DVI-D Cable
DisplayPort to VGA Monitor Cable
A5J7915
DisplayPort to VGA Monitor Cable
A5J7915
DisplayPort to VGA Monitor Cable
A7J7915
DisplayPort to VGA Monitor Cable
A7J7918
A7I™ Radeon™ HD 3470 256MB (DP, VGA)
A7J7918
DISPLAYED COMMON A STANDARD A STA NVIDIA Quadro 256MB FX 370 LP 55Y9275 More accessories on O-M58 sheet

- 3-year parts and labor International Warranty Service⁹ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance
- services available 24 hour x 7 day14 toll-free support
- during the warranty period via 800-426-7378

	Name	Type-model	Slot x bay		rocesso	or	GHz C	ores	Memor	SATA y [®] disk	SATA optical	Graphics		DisplayPort dongle	t Chassis intr switch	Intel vPro	Vista preload	Global (0 GMP (P	3) Avail) date
137	M58p	6137-A2U 6137-A1U 6137-A3U	2x3	Core 2	2 Duo E	8400	3.00	2	2GB	160GB ² 160GB 160GB	DVD±RV	/ GMA	VGA, DF VGA, DF VGA, DF	None	Switch Switch	v Pro	Bus32		Jan 09 Nov 08 Mar 09
	 Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) 														chnology)				

- Intel Core 2 Processor with vPro™ lectinology (includes line) Active Management Technology)
 These models are part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty.

	These models are part	of the Global Models Plus (GMP) program	with limited or	nsite servid	ce ³ 3-year limited warranty
Positioning Processor	Intel® Core™ 2 Duo Proc Virtualization Technology, and 6MB L2 cache	and manageability for the enterprise essor E8400 with dual-core, TXT, 1333MHz system bus,	Small		optical disk (in rear)
Implementation Memory	non-parity, dual-channel c	ckage in LGA775 socket xs, PC3-8500 1066MHz DDR3, apable, four 240-pin DIMM sockets; ry in two sockets; two sockets available	Bay 3 3.5",	1" high, 1.5" high, 1	no access, std disk
Graphics SATA disk SATA controller SATA DVD	integrated graphics in Q45 (up to 765MB [2GB mode one analog VGA DB-15 cc (supports single-link DVI-I supports dual independen 160GB, SATA 3.0Gb/s 72 Serial ATA, SATA 3.0Gb/s,	<i>ls]</i> , 1277MB <i>[3GB models]</i>), onnector, one DisplayPort™ connector O via cable 45J7915), HDCP, DirectX® 10,	Slot 2: Low Pr Business bla 12.5" W X 1 317mm W X 16.5 lb (7.5 Toolless cov Toolless dis Toolless sys	rofile, 32-bi ack color; r 4.0" D X 3 (355mm D kg) in max rer flips up k, optical d apter reten stemboard	t PCI 2.3 metal case 9" H 0 X 99mm H imum configuration and tilts backward on rear hinges rive removal tion retention
SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Some: Super Multi-Burne	r DL DVD±RW SATA Drive drop to device), two SATA connectors	System floo	Securit	Security y chip (see information on left) y slot (in rear for attachment of
Chipset	Digital Office [ICH10D0] (et (PCI Express® 2.0 x16), I/O Controller SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/0	I Express x1,	- optio deac	Kensington® MicroSaver® cable) nal cable also locks the cover by tivating the cover release buttons on password
Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip Keyboard Mouse Power supply Preloaded oper	Six USB 2.0, serial (9-pin) eSATA r Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lin High Definition (HD) Audio One internal speaker for b Gigabit ethernet on planal Intel Active Management None Winbond® WPCT200 Safe Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable speaking system ²⁰	r, Intel 82567LM, Wake on LAN®, ASF2.0, Technology (iAMT) "Keeper™ Trusted Platform Module, TCG 1 ard (USB connector), 104-key, black, Lenove B connector), 400 dpi, black, Lenovo logo eed fan, autosensing, two diagnostic LED Accessories	DisplayPort), rear USB ports) ereo, 3.5mm) DASH 1.0 1.2-compliant ovo® logo	Hard d Boot se Boot w Serial p Individual	strator password isk password (user and master) equence control ithout diskette, keyboard bort I/O control ual USB port disablement Chassis intrusion switch
- Genuine Wind	lows® Vista® Business 32 n logo	1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM	45J5434 45J5435	Supports	ThinkVantage® technologies
Preloaded appl Rescue and R Client Security	Recovery™	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) DVD-ROM DL SATA 1.5Gb/s 16-48X Ma	43R1990 45J7918 41N5618	GREEN(RoHS-co	GUARD® certified empliant
 ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Systel Adobe® Reade Microsoft® Off Roxio® Creato (DVD±RW) Roxio MyDVD 	Productivity Center System Update Power Manager SScan® Plus rus definitions) m Toolbox er® ice 2007 Trial (60-day) r® Business Edition	Super Multi-Burner DL DVD±RW SATA IDisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VCNVIDIA® Quadro® 256MB NVS 290 NVIDIA Quadro 256MB FX 370 LP More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	45J7915 57Y4393 GA) 45K1636 43R1765 55Y9275 esguide	□ Intern □ Custo parts for se Mon - next t □ Onsite (in elii · 4-ye (Thi · 4-ye (Thi □ Think	Limited Warranty¹ r parts and labor ational Warranty Service³ omer Replaceable Unit (CRU) only (with limited onsite service lected parts³, 8 am - 5 pm, Fri coverage excluding holidays, susiness day response time) e service upgrade options gible locations):² ear LOR 9x5, Next Business Day nkPlus™ part number 41C9194) ear LOR 9x5, 4 hour response inkPlus part number 41C9195) ear LOR 24x7, 4 hour response inkPlus part number 41C9196) Plus services at o.com/thinkplus/warranty

lenovo.com/thinkplus/warranty Post warranty maintenance services available

24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x Name Type-model bay GHz Cores Memory⁸ disk SATA Monito optical Graphics conn Monitor DisplayPort ENERGY Intel Vista Global (G) Avail conn dongle STAR 5.0 vPro preload GMP (P) date Processor **M58p** 6234-A1U 2x3 Core 2 Duo E8400 3.00 2 2GB 160GB2 DVD±RW GMA VGA, DP None ES50 vPro Bus32 G P Nov 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
 This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	Intel® Core™ 2 Duo Proc	and manageability for the enterprise essor E8400 with dual-core, TXT, 1333MHz system bus, ckage in LGA775 socket	Small	optical disk (in rear)
Memory	2GB std, 8GB max ⁸ , PC3 non-parity, dual-channel of		Bay ② 3.5", Bay ③ 3.5", Slot 1: Low Pr	1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express 2.0 x16
Graphics	integrated graphics in Q45 one analog VGA DB-15 co	celerator 4500 (GMA 4500), 5, uses main memory (up to 765MB), connector, one DisplayPort™ connector D via cable 45J7915), HDCP, DirectX® 10, tt display	• Business bla • 12.5" W X 1 • 317mm W X • 16.5 lb (7.5	ofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H 355mm D X 99mm H kg) in maximum configuration
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV Two SATA cables (each 1- One external SATA (eSAT. None	00 rpm, vibration dampening mounts, integrated in ICH10DO, RAID 0/1 //D±RW SATA 1.5Gb/s Drivedrop to device), two SATA connectors A) port	Toolless disiToolless adaToolless sys	ver flips up and tilts backward on rear hinges k, optical drive removal apter retention temboard retention r stand for vertical orientation Security
Media reader Chipset	Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller I SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/0	Express x1,	Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) optional cable also locks the cover by
Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip Keyboard	Six USB 2.0, serial (9-pin) eSATA Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for be Gigabit ethernet on plana Intel Active Management None Winbond® WPCT200 Safe Preferred Pro USB Keybo	r, Intel 82567LM, Wake on LAN®, ASF2.0, Technology (iAMT) eKeeper™ Trusted Platform Module, TCG 1 ard (USB connector), 104-key, black, Lend	DisplayPort), ear USB ports) ereo, 3.5mm) DASH 1.0 I.2-compliant ovo® logo	deactivating the cover release button's Power-on password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement Chassis intrusion switch
Mouse Power supply Preloaded oper	280 watts with variable sp	B connector), 400 dpi, black, Lenovo logo eed fan, autosensing, 85% PSU Accessories		Supports ThinkVantage® technologies
 Genuine Wind ♦ Vista Premium Preloaded appli Rescue and R Client Security 	ows [®] Vista® Business 32 logo cations⁵ ecovery™	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA IDisplayPort to Single-link DVI-D Cable	45J5434 45J5435 43R1990 45J7918 Drive 41N5620 45J7915	Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR 5.0-compliant GREENGUARD® certified RoHS-compliant
ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi	System Update Power Manager Scan® Plus us definitions) n Toolbox er® ce 2007 Trial (60-day) e® Business Edition	DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VC NVIDIA® Quadro® 256MB NVS 290 NVIDIA Quadro 256MB FX 370 LP More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessoriother accessories at lenovo.com/accessories	43R1765 55Y9275 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 - 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name Type-model	Slot x	Processor	GHz C	ores Me	morv	SATA 8 disk	SATA optical	Graphic	Monito	or DisplayPor ors dongle		Preload	Global	Avail date
M58p 9965-A6U	4x4	Core 2 Duo E8400 Core 2 Quad Q9400	3.00	2 20	GB <i>GB</i>	250GB ²	DVD±RW DVD±RW	GMA	VGA, E	OP None	vPro	XP Pro	None	Nov 09
·	• In	tel Core 2 Processon hese small and medi hese models have a s	with vF ım busi	ness (Si	MB) i	models a)			
Positioning Processor	Virtuand Inte	mate security, stability Core™ 2 Duo Pro ualization Technology 6MB L2 cache or I Core 2 Quad Procusilization Technology 6MB L2 cache	essor (TXT, 1:	E8400 v B33MHz 9400 wi	with c z sys ith q ı	lual-core tem bus, uad-core	.	• 6. • 17 • 24 • H	usiness bla 9" W X 17. 75mm W X 4.2 lb (11.0 andle on to	ack color; met 3" D X 15.8" 440mm D X 0 kg) in max cop front er removal	H 402mr	n H	optica ② ③ disk	al .
Implementation Memory	2GE non- Italia	essor in LGA775 so B or 4GB std, 8GB m parity, dual-channel ss: standard me -italics: standard me	ax ⁸ , PC capable mory in	four 24 two soc	10-pir :kets;	n DIMM s two sock	ockets; cets availabl	• To op • To	oolless disk ptical drive polless ada	k, diskette driv	1	std opt	ical	000000000000000000000000000000000000000
Graphics	integone one (sup	I Graphics Media Adgrated graphics in Q4 analog VGA DB-15 of ports single-link DVI- ports dual independe	ccelerat 5, uses onnecto D via ca nt displa	or 4500 main m r, one [ble 45J	O (GN emo Displa 17915	MA 4500) ry (up to ayPort™ c s), HDCP,	, 1GB), connector , DirectX® 10	Bay Bay Bay Slor	/ ② 5.25", / ③ 3.5", / ④ 3.5", t 1: half-ler t 2: half-ler	1.6" high, acd 1" high, acd 1" high, no ngth,full-heigh ngth,full-heigh	cess, cess, acces it, PCI it, PCI	open open (i s, std dis e 2.0 x16 e x1	reader/e k 6 (75w r	diskette) nax)
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	Seri Sup Two	e	s, integra VD±RW -drop to	ated in İ SATA 1 device	CH1 .5Gb	0DO, RAI o/s Drive	ID 0/1			Security c One lock entire sys Padlock	Se hip (se to secu	ecurity ee informative both of fixed obj	ation or cover are	nd [′]
Chipset	Inte Digi	I Q45 Express Chip tal Office [ICH10DO] rnet MAC, PCI 2.3, l	(SATA 3	.0Gb/s	with	RAID 0/1	support, Po	CI Expi		 Security 	slot (i) ton® M passw	n rear for licroSave <i>r</i> ord	option	al ´
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Intel AMT Modem	Six I mon Two Line High One Giga	USB 2.0, microphon JSB 2.0, serial (9-pir itor (VGA DB-15, Dis USB 2.0 planar coni-in (stereo, 3.5mm), Definition (HD) Aud internal speaker for abit ethernet on plana Active Management), keybo playPor (1 usedine-out o, Analo busines ur, Intel (ard (PS t) d; one o stereo, og Devid s audio 32567LI	S/2), pen 1 3.5n ces A M, W	mouse (P for media nm), micr D1882 co	PS/2), etherr reader or 2 ophone-in (sodec	net (RJ rear U stereo,	JSB ports) 3.5mm)	Hard diskBoot sequBoot withSerial porIndividual	ience d out dis t I/O co	control kette, key ontrol	board	ŕ
Security chip	Win	bond® WPCT200 Saf								Supports Th	inkVai	ntage® te	chnolo	gies
Keyboard Mouse Power supply	Opti	erred Pro USB Keybo cal Wheel Mouse (Us watts with variable s	SB conn	ector), I	black	, Lenovo	logo		logo	GREENGUA RoHS-comp		certified		
through downg Windows 7 Pr Preloaded appl • Rescue and R • Client Security • ThinkVantage • McAfee® Virus (30 days of vir • Lenovo Syster • Adobe® Reade	Professional Production System Tooler® ice 20 r° Bu	essional preinstalled rights in Genuine ional sins (only some listed ery™ uctivity Center em Update finitions) libox 1007 Trial (60-day) siness Edition D±RW)	1GB 2GB 500G 1TB S Supe Blu-ra Displ Displ NVID NVID NVID More Acc C	PC3-85 B SATA SATA 3.1 r Multi-E y™ Bur ayPort t Radeor IA® GeF IA Quad access Guide in	00 D 00 D 3.00 0Gb/ 3urner o Sin o VG n™ H Force dro®: dro 2	s Disk (7: er DL DVI SATA 1.50 gle-link E A Monito D 3470 2 9 9500G 256MB N 56MB N on O-M5	MM (7200 rpm) 200 rpm) D±RW SATA Gb/s Drive OVI-D Cable r Cable 256MB (DP, T 512MB (DIVS 290 /S 295	VGA) P, DVI) priesgu	45K1675 45J7915 57Y4393 45K1636)45K1635 43R1765 45K1669 ide	□ 3-year pi □ Internati □ Custome parts on for selec Mon - Fr next bus □ Onsite s (in eligib □ 3-year (Thinkl □ 4-year □	arts an onal Wer Replay (with ted partice le local LOR 2 Plus partice LOR 2 Plus partice le local LOR 3 Plus partice le local LOR 3 Plus parti	darranty Staceable In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited In Ilmited Ilm	Gervice [®] Unit (CI onsite s 1 - 5 pm uding h onse tir options ur respo oer 41C91 Busine r 41C91 ur respo r 41C91 rranty nce e supp	RU) service l, loolidays, ne) s onse 9192) oonse 93) ss Day 94) oonse 95) oonse

	Name	Type-model	Slot x bay	Processor	GHz (Cores	Memory	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPor dongle				Avail date
				Core 2 Duo E8400			2GB	250GB ²	DVD±RW	GMA	VGA, DP	None	vPro	Pro 32	None	Jan 10
	M58p	9965-ABU	4x4	Core 2 Quad Q9400	2.66	4	4GB	320GB	DVD±RW	GMA	VGA, DP	None	vPro	Pro 32	None	Jan 10
132	M58p	9965-ACU	4x4	Core 2 Duo E8400	3.00	2	4GB	320GB	DVD±RW	GMA	VGA, DP	None	vPro	Pro 64	None	Mar 10

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in LGA775 socket	 6.9" W X 17. 175mm W X 24.2 lb (11.0) Handle on to Toolless cov 		
Memory	2GB or 4GB std, 8GB max ⁸ , PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	optical drive • Toolless ada Bay ① 5.25",	removal apter retention 1.6" high, access, std optical	
Graphics	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 765MB [2GB models] or 1759MB [4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, supports dual independent display	Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-ler Slot 2: half-ler Slot 3: half-ler		
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 support Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar None None None	Security Security chip (see information One lock to secure both cover entire system to fixed object: Padlock loop (in rear for optic) Security slot (in rear for optic)		
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller H Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	Kensington® MicroSaver® cab • Power-on password • Administrator password • Hard disk password (user and	
	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet monitor (VGA DB-15, DisplayPort) Two USB 2.0 planar conn (1 used; one open for media reader or 2 re Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (ste High Definition (HD) Audio, Analog Devices AD1882 codec One internal speaker for business audio	(RJ-45), ar USB ports)	Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement	
Ethernet Intel AMT	Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, [Intel Active Management Technology (iAMT)	DASH 1.0	Supports ThinkVantage® technol	
Modem Security chip	None Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.	·	GREENGUARD® certified RoHS-compliant	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenov Optical Wheel Mouse (USB connector), black, Lenovo logo 280 watts with variable speed fan, manual switch, two diagnostic LEE	Ü	Limited Warranty¹	

- Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7
- Professional 64

Preloaded applications⁵ (only some listed)

- Rescue and RecoveryTM
 Password Manager

- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Lenovo Online Data Backup Norton™ Internet Security 2009 (30 days of virus definitions)
- Adobe® Reader® Adobe Flash® Player
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)

Accessories

45J5434 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk(7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro 256MB NVS 295 43R1765 45K1669 More accessories on O-M58 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

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- master)
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- ent

ologies

- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

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Name Type-model	Slot x bay Processor	GHz Cores Memory ⁸ disk	SATA optical Graphic		playPort Chassis longle intr switch					
M58p 7484-AHU M58p 7484-AEU	4x4 Core 2 Duo E8500 4x4 Core 2 Duo E8500 4x4 Core 2 Duo E8500 4x4 Core 2 Duo E8500 4x4 Core 2 Quad Q9400	3.00 2 2GB 160GB 3.00 2 2GB 250GB 3.00 2 2GB 250GB 3.16 2 1GB 160GB 3.16 2 2GB 160GB 3.16 2 2GB 250GB 3.16 2 2GB 250GB 3.16 2 2GB 250GB 2.66 4 2GB 160GB r with vPro™ Technology (DVD±RW GMA DVD±RW GMA DVD±RW GMA DVD GMA DVD±RW GMA DVD±RW GMA DVD GMA DVD 3470 DVD±RW 3470	VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP DP VGA, DP DP	Switch Sto-DVI-D -to-DVI-D -to-DVI-D	vPro Bus32 vPro Bus32	Nov 08 Nov 08 Nov 08 Nov 08 Nov 08 Nov 08 C Nov 08 Nov 08 Nov 08 Nov 08			
Positioning Processor	Intel® Core™ 2 Duo Pro Virtualization Technolog and 6MB L2 cache or Intel Core 2 Quad Proc Virtualization Technolog and 6MB L2 cache Processor in FC-LGA8 p	y, and manageability for the cessor E8400 or E85	with dual-core, ous, core, ous, t	• 6.9" W X 17 • 175mm W > • 24.2 lb (11.0) • Handle on to toolless cooless dis	ver removal sk, diskette drive,	mm H	al			
Memory	non-parity, dual-channel <i>Italics:</i> standard me	nax ⁸ , PC3-8500 1066MHz capable, four 240-pin DIN emory in two sockets; two emory in one socket; 3 soc	/IM sockets; sockets available;	Bay ① 5.25",	apter retention 1.6" high, access		ů			
Graphics DP dongle	integrated graph (up to 253MB /1· one analog VGA HDCP, DirectX® Some: ATI™ Radeon™ 256MB, one ana	Media Accelerator 4500 (ics in Q45, uses main mer GB models), 765MB [2GB DB-15 connector, one Dis 10, supports dual indepen HD 3470, PCI Express® 2 log VGA DB-15 connector P, DirectX 10.1, ATI Avivo ^T polled in DVI-D Cable	mory d models]), splayPort™ conn, dent display do x16 adapter, r, one DisplayPort	Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-le Slot 2: half-le Slot 3: half-le	1" high, access 1" high, no acc ength,full-height, P ength,full-height, P ength,full-height, 3 ength,full-height, 3	1.6" high, access, open open (reader/disket 1" high, access, open (reader/disket 1" high, no access, std disk ogth, full-height, PCle 2.0 x16 (75w max)* ngth, full-height, PCle x1 ngth, full-height, 32-bit PCl 2.3 ngth, full-height, 32-bit PCl 2.3				
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	160GB or 250GB, SATA Serial ATA, SATA 3.0Gb, Some: DVD-ROM DL S Some: Super Multi-Bur	3.0Gb/s 7200 rpm, vibrat s, integrated in ICH10DO ATA 1.5Gb/s 16-48X Max ner DL DVD±RW SATA 1. 1-drop to device), three S	, RAID 0/1 suppor ⁴ Drive 5Gb/s Drive		Security chip One lock to seentire system Padlock loop Security slot	Security (see information of eeure both cover a to fixed object: p (in rear for opt p t (in rear for option) MicroSaver® cabissword	and ´ adlock) nal			
Chipset Front ports	Intel Q45 Express Chip Digital Office [ICH10DO ethernet MAC, PCI 2.3,	oset (PCI Express 2.0 x16 (SATA 3.0Gb/s with RAIE USB, LPC bus), SMSC® S ne (stereo, 3.5mm), headp	0 0/1 support, PCI CH5617 Super I/0	Express x1, O	 Hard disk pas Boot sequenc Boot without c Serial port I/C 	ssword (user and r be control diskette, keyboard	·			
Rear ports Internal connector	Six USB 2.0, serial (9-pi monitor (VGA DB-15, Di Two USB 2.0 planar con Line-in (stereo, 3.5mm),	n), keyboard (PS/2), mous splayPort) n (1 used; one open for m line-out (stereo, 3.5mm),	se (PS/2), etherne ledia reader or 2 re microphone-in (ste	t (ŔJ-45), ear USB ports)	• Some: Chass	is intrusion switch				
Audio Speaker Ethernet Intel AMT	High Definition (HD) Aud One internal speaker for	lio, Analog Devices AD18 business audio ar, Intel 82567LM, Wake o	82 codec		GREENGUARD RoHS-complian	D® certified	ogies			
Modem Security chip Keyboard Mouse Power supply	Preferred Pro USB Keyb Optical Wheel Mouse (U	feKeeper™ Trusted Platfor oard (USB connector), 10 SB connector), black, Ler speed fan, manual switch,	04-key, black, Lenc	ovo® logo	 ⇒ 3-year parts ⇒ International ⇒ Customer Re 	l Warranty Service eplaceable Unit (C	RU)			
 ♦ Vista Premium Preloaded appli • Some: Educa: VitalSource[™] Adobe® Elem Photoshop Premiere E Rescue and R Client Security ThinkVantage Microsoft® Offi Roxio® Creato (DVD±RW) Roxio MvDVD® 	ows® Vista® Business 32 n logo ications⁵ (only some listeration software Library School Edition lents Elements 6 Elements 4 ecovery™ r Solution™ Productivity Center ce 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC3-8500 DDR3 2GB PC3-8500 DDR3 1TB SATA 3.0Gb/s Dis DVD-ROM DL SATA 1 Super Multi-Burner DL Blu-ray™ Burner SATA DisplayPort to Single-I DisplayPort to VGA Mo ATI Radeon HD 3470 : NVIDIA® GeForce® 95 NVIDIA Quadro® 256M NVIDIA Quadro 256M More accessories on C Acc Guide in pdf lenoo Other accessories at le	UDIMM sk (7200 rpm) .5Gb/s 16-48X Ma. DVD±RW SATA I. 1.5Gb/s Drive ink DVI-D Cable contor Cable 256MB (DP, VGA) 00GT 512MB (DP, VGA)	Drive 41N5620 45K1675 45J7915 57Y4393 45K1636 DVI)45K1635 43R1765 45K1669 esguide	for selected Mon - Fri con next busines Onsite servii (in eligible to 3-year LOI (ThinkPlus 3-year LOI (ThinkPlus 4-year LOI (ThinkPlus 4-year LOI (ThinkPlus 2-year LOI 2-year	R 9x5, 4 hour resp ™ part number 41C9 R 24x7, 4 hour resp part number 41C9 R 9x5, 4 hour resp part number 41C9 R 24x7, 4 hour resp part number 41C9 Plus services at thinkplus/warranty day¹⁴ toll-free supply parranty period¹	n, holidays, ime) is oonse 29192) ponse 193) oonse 195) ponse 196)			

Slot x				SATA	SATA		Monitor	DisplayPort	Intel		Global	Avail
Name Type-model bay Processor	GHz	Cores	Memory ⁸	disk	optical	Graphics	conn	dongle	vPro	Preload	Educ	date
M58p 7484-B2U 4x4 Core 2 Duo F8400	3 00	2	2GB	160GB ²	DVD+RW	/ GMA	VGA DP	DP-to-DVI-D	vPro	XP Pro	None	Apr 09

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)
- This model has a 3-year limited warranty

monitor (VGA DB-15, DisplayPort)

One internal speaker for business audio

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Processor in FC-LGA8 package in LGA775 socket	Tower ■ Business black color; metal case ■ 6.9" W X 17.3" D X 15.8" H ■ 175mm W X 440mm D X 402mm H ■ 24.2 lb (11.0 kg) in max configuration
Memory	2GB std , 8GB max ⁸ , PC3-8500 1066MHz DDR3 , non-parity, dual-channel capable, four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; 3 sockets available	Handle on top front Toolless cover removal Toolless disk, diskette drive,
Graphics DP dongle	Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in Q45, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, HDCP, DirectX® 10, supports dual independent display DisplayPort to Single-link DVI-D Cable	optical drive removal Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical say ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/diskette)
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port	160GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar None	Bay (a) 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCIe 2.0 x16 (75w max) Slot 2: half-length,full-height, PCIe x1 Slot 3: half-length,full-height, 32-bit PCI 2.3 Slot 4: half-length,full-height, 32-bit PCI 2.3
Diskette drive Media reader	None None	Security
Chipset	Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PC ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/	Express x1, entire system to fixed object:
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), etherne	

Preloaded operating system²⁰

Genuine Windows® XP Professional (preinstalled via downgrade rights in Windows Vista® Business)

None

Preloaded applications⁵

Rear audio ports

Audio

Speaker

Ethernet

Intel AMT Modem

Keyboard

Mouse

Security chip

Power supply

- Rescue and Recovery™
 Client Security Solution™
 ThinkVantage Productivity Center ThinkVantage System Update
- McAfee® VirusScan® Plus
- (30 days of virus definitions)
- Lenovo System Toolbox
- Adobe® Reader® Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

280 watts with variable speed fan, manual switch, two diagnostic LEDs Accessories

Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)

High Definition (HD) Audio, Analog Devices AD1882 codec

Optical Wheel Mouse (USB connector), black, Lenovo logo

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0 Intel Active Management Technology (iAMT)

Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo

Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant

1GB PC3-8500 DDR3 UDIMM 45J5434 2GB PC3-8500 DDR3 UDIMM 45J5435 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VGA) 57Y4393 45K1636 NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro 256MB NVS 295 43R1765 45K1669 More accessories on O-M58 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- Power-on password
- Administrator password
- Hard disk password (user and master)
- Boot sequence control
- Boot without diskette, keyboard
- Serial port I/O control
- Individual USB port disablement

Supports ThinkVantage® technologies GREENGUARD® certified

Limited Warranty¹

3-year parts and labor

RoHS-compliant

- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196) ThinkPlus services at
- lenovo.com/thinkplus/warranty Post warranty maintenance
- services available 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Slot x Name Type-model bay	Processor	GHz	Cores Mo	emory ⁸	SATA disk	SATA optical	Graphics	Monitor conn	DisplayPort dongle	Intel vPro	Win7 preload	Global Educ	Avail date
MESO 7494 D111 4v4 C	oro 2 Duo E9400	3 00	2	2CB	250CB2	DVD+DW	CMA	VCA DD	DD to DVI D	vDro	Dro 22	Nono	lan 10

	 Intel Core 2 Processor v This model has a 3-year 	with vPro™ Technology (includes Intel Ac r limited warranty¹	tive Managemei	nt Technology)	
Positioning Processor	Intel® Core™ 2 Duo Proc	and manageability for the enterprise essor E8400 with dual-core, TXT, 1333MHz system bus, ket	• 6.9" W X 17 • 175mm W X	ack color; metal case .3" D X 15.8" H (440mm D X 402mm H D kg) in max configuration	
Memory		-8500 1066MHz DDR3, apable, four 240-pin DIMM sockets; ory in one socket; 3 sockets available	Handle on toToolless covToolless disl	op front ver removal k, diskette drive,	
Graphics	integrated graphics in Q45 one analog VGA DB-15 co HDCP, DirectX® 10, suppo	celerator 4500 (GMA 4500), 5, uses main memory (up to 765MB), onnector, one DisplayPort™ connector, orts dual independent display	Bay ① 5.25",	apter retention 1.6" high, access, std optical 1.6" high, access, open	
DP dongle SATA disk SATA controller SATA DVD±RW SATA cables eSATA port	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	00 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 ID±RW SATA 1.5Gb/s Drive drop to device), three SATA connectors	Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-ler Slot 2: half-ler Slot 3: half-ler	1" high, access, open (reader/diskette)	
Diskette drive Media reader	None None		Security		
Chipset	Intel Q45 Express Chips Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/O	Express x1,	Security chip (see information on left) One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock)	
	Six USB 2.0, serial (9-pin) monitor (VGA DB-15, Disp Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lin High Definition (HD) Audic One internal speaker for b Gigabit ethernet on planar Intel Active Management None Winbond® WPCT200 Safe	(1 used; one open for media reader or 2 r ne-out (stereo, 3.5mm), microphone-in (st o, Analog Devices AD1882 codec usiness audio r, Intel 82567LM, Wake on LAN®, ASF2.0,	ear USB ports) ear USB ports) ereo, 3.5mm) DASH 1.0	- Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password (user and master) - Boot sequence control - Boot without diskette, keyboard - Serial port I/O control - Individual USB port disablement	
Mouse Power supply	Optical Wheel Mouse (US	B connector), black, Lenovo logo eed fan, manual switch, two diagnostic LE		Supports ThinkVantage® technologies	
Preloaded opera- Genuine Wind Preloaded appli	ows® 7 Professional 32	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM	45J5434 45J5435	GREENGUARD® certified RoHS-compliant	
 Rescue and R Password Mar ThinkVantage ThinkVantage ThinkVantage Lenovo Online Norton™ Interr (30 days of vir Adobe® Reade Adobe Flash® Microsoft® Offi 	ecovery™ lager System Update Power Manager Toolbox Data Backup net Security 2009 us definitions) er® Player ce 2007 Trial (60-day) ® Business Edition	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I Blu-ray™ Burner SATA 1.5Gb/s Drive DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VI NVIDIA® GeForce® 9500GT 512MB (DF NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro® 256MB NVS 295 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	45K1675 45J7915 57Y4393 GA) 45K1636 P, DVI)45K1635 43R1765 45K1669	Limited Warranty 3-year parts and labor International Warranty Service Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations): 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

s	lot x	SATA	SATA	Monitor Dis	olayPort ENEF	RGY Intel	Global Avai			
Name Type-model	bay Processor G	Hz Cores Memory ⁸ disk	optical Graphic	s conn d	ongle STAF	R 5.0 vPro Pre	load Educ date			
M58p 3063-B7U 4 M58p 3063-B9U 4 M58p 3063-B8U 4	4x4 Core 2 Duo E8400 3. 4x4 Core 2 Duo E8500 3.	00 2 2GB 320GB 16 2 2GB 320GB 16 2 2GB 320GB 66 4 4GB 320GB vith vPro™ Technology (DVD±RW GMA DVD±RW 3470 DVD±RW GMA DVD±RW 3470 DVD±RW GMA includes Intel Act	VGA, DP DP-1 VGA, DP DP-1 VGA, DP DP-1 VGA, DP DP-1	to-DVI-D ES to-DVI-D ES to-DVI-D ES to-DVI-D ES	50 vPro XP 50 vPro XP 50 vPro XP 50 vPro XP	Pro No Oct 09 Pro No Oct 09 Pro No Oct 09 Pro No Oct 09 Pro No Oct 09 Pro No Oct 09			
Positioning Processor Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 or E8500 with dual-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache or Intel Core 2 Quad Processor Q9400 with quad-core, Virtualization Technology, TXT, 1333MHz system bus, and 6MB L2 cache Tower ■ Business black color; metal of 6.9" W X 17.3" D X 15.8" H ■ 175mm W X 440mm D X 402 ■ 24.2 lb (11.0 kg) in max conf ■ Handle on top front ■ Trolless cover removal							02mm H 3 disk			
Implementation Memory	Processor in LGA775 sock 2GB or 4GB std, 8GB ma: non-parity, dual-channel co Italics: standard mem Non-italics: standard mem	x ⁸ , PC3-8500 1066MHz apable, four 240-pin DIM ory in two sockets; two	IM sockets; sockets available;	 Toolless districted optical drive Toolless ada Bay ① 5.25", 	k, diskette driveremoval apter retention	n cess, std op	btical			
Graphics DP dongle	one analog VĠA D HDCP, DirectX® 10 Some: ATI™ Radeon™ HI 256MB, one analog	in Q45, uses main mer B-15 connector, one Dis , supports dual indepen D 3470, PCI Express® 2. g VGA DB-15 connector DirectX 10.1, ATI Avivo™	nory (up to 1GB), playPort™ conn, dent display 0 x16 adapter, one DisplayPort	Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-lei Slot 2: half-lei Slot 3: half-lei	, 1.6" high, access, open 1" high, access, open (reader/diskette 1" high, no access, std disk ength, full-height, PCIe 2.0 x16 (75w max)* ength, full-height, PCIe x1 ength, full-height, 32-bit PCI 2.3 ength, full-height, 32-bit PCI 2.3					
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	320GB, SATA 3.0Gb/s 720 Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV Two SATA cables (each 1-one eSATA connector on p None None None	0 rpm, vibration damper integrated in ICH10DO, D±RW SATA 1.5Gb/s Dr drop to device), three SA	RĂID 0/1 supportive	t	Security Security Security chip (see information on left) One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Administrator password Hard disk password (user and master) Boot sequence control Boot without diskette, keyboard Serial port I/O control Individual USB port disablement Supports ThinkVantage® technologies Climate Savers®-compliant					
Chipset	Intel Q45 Express Chipse Digital Office [ICH10D0] (sethernet MAC, PCI 2.3, US	SATA 3.0Gb/s with RAID	0/1 support, PCI	Express x1,						
Rear audio ports Audio Speaker Ethernet Intel AMT	Two USB 2.0, microphone Six USB 2.0, serial (9-pin), monitor (VGA DB-15, Disp Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lir High Definition (HD) Audio One internal speaker for br Gigabit ethernet on planar Intel Active Management T	keyboard (PS/2), mous layPort) (1 used; one open for me- e-out (stereo, 3.5mm), r , Analog Devices AD188 usiness audio Intel 82567LM, Wake o	e (PS/2), etherne edia reader or 2 re microphone-in (ste 32 codec	t (RJ-45), ear USB ports) ereo, 3.5mm)						
Modem Security chip	None Winbond® WPCT200 Safel	Keeper™ Trusted Platfor	m Module, TCG 1	.2-compliant	GREENGUARD® certified npliant RoHS-compliant					
Keyboard Mouse Power supply	Preferred Pro USB Keyboa Optical Wheel Mouse (USI 280 watts with variable spe	3 connector), black, Len	ovo logo	vo® logo	Limited Warranty¹					
Preloaded oper - Windows® XP - through downg Windows 7 Pre Preloaded appli - Rescue and R - Client Security - ThinkVantage - ThinkVantage - McAfee® Virus (30 days of virus - Lenovo Syster - Adobe® Reade - Microsoft® Offi	ating system ²⁰ Professional preinstalled grade rights in Genuine ofessional lecations ⁵ (only some listed) ecovery™ Solution™ Productivity Center System Update Scan® Plus us definitions) in Toolbox er® ce 2007 Trial (60-day) Business Edition (DVD±RW)	Accessories 1GB PC3-8500 DDR3 2GB PC3-8500 DDR3 2GB PC3-8500 DDR3 500GB SATA 3.0Gb/s Dis Super Multi-Burner DL Blu-ray TM Burner SATA DisplayPort to Single-li DisplayPort to VGA Mc ATI Radeon HD 3470 2 NVIDIA® GeForce® 950 NVIDIA Quadro® 256M NVIDIA Quadro 256M More accessories on C Acc Guide in pdf lenov Other accessories at le	UDIMM UDIMM Disk (7200 rpm) k (7200 rpm) DVD±RW SATA I 1.5Gb/s Drive nk DVI-D Cable initor Cable 566MB (DP, VGA) 056MB (DP, VGA) 078MB (DP, VGA) 08 NVS 290 08 NVS 295 09 N58 sheet 06.com/accessoria	45K1675 45J7915 57Y4393 45K1636 DVI)45K1635 43R1765 45K1669 esguide	internation Custome parts only for select Mon - Fri next busi Consides in eligib - 3-year (Thinkf - 3-year (Thinkf - 4-year Chinkf - 4-yea	onal Warranty or Replaceable by (with limited ted parts³, 8 at i coverage exc iness day resp ervice upgrade le locations): LOR 9x5, 4 ho Plus part num LOR 24x7, 4 h Plus part numb LOR 9x5, Nex Plus part numb LOR 9x5, 4 ho Plus part numb LOR 24x7, 4 h Plus part numb LOR 24x7, 4 h Plus part numb LOR 34x7, oll services at om/thinkplus/w ranty mainten available x 7 day¹⁴ toll-fr ne warranty pe	unit (CRU) I onsite service m - 5 pm, Ituding holidays conse time) e options our response er 41C9192) four response er 41C9193) t Business Day er 41C9194) our response er 41C9196) arranty ance ee support			

Slot x Name Type-model bay	Processor	GHz	Cores	Memory	SATA disk	SATA optical	Graphics	Monitor connectors	DisplayPort dongle	t Intel vPro	Vista preload	Global (G GMP (P)	
M58p 6138-A1U 4x4	Core 2 Duo E8400	3.00	2	2GB	160GB ²	DVD±RW	GMA	VGA. DP	None	vPro	Bus32	GP	Nov 08

- Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology)

 This could be seen that the College of the
- This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warrant

		e Global Models Plus (GMP) program with				
Positioning Processor Implementation Memory Graphics	Intel® Core™ 2 Duo Proce Virtualization Technology, and 6MB L2 cache Processor in FC-LGA8 pa 2GB std, 8GB max ⁸ , PC3- non-parity, dual-channel c Italics: standard memo Intel Graphics Media Acc integrated graphics in Q45	<u> </u>	6.9" W X 17 175mm W X 24.2 lb (11.0 Handle on t Toolless cov Toolless dis optical drive Toolless ada	ver removal k, diskette drive, removal apter retention		
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port	supports dual independen 160GB, SATA 3.0Gb/s 720 Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV Two SATA cables (each 1- and one eSATA connector None	00 rpm, vibration dampening mounts integrated in ICH10DO, RAID 0/1 /D±RW SATA 1.5Gb/s Drive drop to device), three SATA connectors	Bay ① 5.25", 1.6" high, access, std optical open Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader/series) 3.5", 1" high, no access, std disk Slot 1: half-length,full-height, PCle 2.0 x16 (75w r Slot 2: half-length,full-height, PCle x1 Slot 3: half-length,full-height, 32-bit PCl 2.3 Slot 4: half-length,full-height, 32-bit PCl 2.3			
Diskette drive Media reader Chipset	Digital Office [ICH10DO] (et (PCI Express® 2.0 x16), I/O Controller I SATA 3.0Gb/s with RAID 0/1 support, PCI SB, LPC bus), SMSC® SCH5617 Super I/0	I Express x1,	Security Security chip (see information on left) One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock)		
Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip Keyboard Mouse Power supply Preloaded oper	Six USB 2.0, serial (9-pin) monitor (VGA DB-15, Disp Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lir High Definition (HD) Audic One internal speaker for b Gigabit ethernet on planar Intel Active Management None Winbond® WPCT200 Safe Preferred Pro USB Keybor Optical Wheel Mouse (US 280 watts with variable speaking system ²⁰	(1 used; one open for media reader or 2 rne-out (stereo, 3.5mm), microphone-in (sto, Analog Devices AD1882 codec usiness audio r, Intel 82567LM, Wake on LAN®, ASF2.0, Technology (iAMT) "Keeper™ Trusted Platform Module, TCG 1 ard (USB connector), 104-key, black, Lence B connector), black, Lency logo eed fan, manual switch, two diagnostic LE	et (RJ-45), rear USB ports) ereo, 3.5mm) DASH 1.0 1.2-compliant ovo® logo	- Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password (user and master) - Boot sequence control - Boot without diskette, keyboard - Serial port I/O control - Individual USB port disablement - Chassis intrusion switch		
♦ Vista Premium		1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk(7200 rpm)	45J5434 45J5435 43R1990	Supports ThinkVantage® technologies		
Rescue and R Client Security	ecovery™ ⁄ Solution™	1TB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA I Blu-ray™ Burner SATA 1.5Gb/s Drive	45J7918	GREENGUARD® certified RoHS-compliant		
 ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi 	Pówer Manager Scan® Plus us definitions) n Toolbox er® ce 2007 Trial (60-day) r® Business Edition	DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, V0 NVIDIA® GeForce® 9500GT 512MB (DP, NVIDIA Quadro® 256MB NVS 290 NVIDIA Quadro 256MB NVS 295 More accessories on O-M58 sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/acces	P, DVI)45K1635 43R1765 45K1669 iesguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):² - 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		

Monitor DisplayPort ENERGY Intel Win 7 Global (G) Avail conn dongle STAR 5.0 vPro preload GMP (P) date SATA SATA optical Graphics Name Type-model bay Processor GHz Cores Memory⁸ disk 250GB2 DVD±RW GMA VGA. DP M58p 3285-A1U 4x4 Core 2 Duo E8400 3.00 2 2GB ES50 vPro Pro 32 G P Oct 09 None Intel Core 2 Processor with vPro™ Technology (includes Intel Active Management Technology) This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty Ultimate security, stability, and manageability for the enterprise Intel® Core™ 2 Duo Processor E8400 with dual-core, Positioning Tower Processor optical • Business black color; metal case Virtualization Technology, TXT, 1333MHz system bus, • 6.9" W X 17.3" D X 15.8" H (2) and 6MB L2 cache • 175mm W X 440mm D X 402mm H Implementation Processor in LGA775 socket • 24.2 lb (11.0 kg) in max configuration • Handle on top front Memory 2GB std, 8GB max8, PC3-8500 1066MHz DDR3 non-parity, dual-channel capable, four 240-pin DIMM sockets; Toolless cover removal Non-italics: standard memory in one socket; 3 sockets available · Toolless disk, diskette drive, optical drive removal Graphics Intel Graphics Media Accelerator 4500 (GMA 4500). Toolless adapter retention integrated graphics in Q45, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector Bay ① 5.25", 1.6" high, access, Bay ② 5.25", 1.6" high, access, Bay ③ 3.5", 1" high, access, Bay ④ 3.5", 1" high, no acce std optical (supports single-link DVI-D via cable 45J7915), HDCP, DirectX® 10, open supports dual independent display open (reader/diskette) SATA disk 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts no access, std disk SATA controller Serial ATA, SATA 3.0Gb/s, integrated in ICH10DO, RAID 0/1 Slot 1: half-length, full-height, PCle 2.0 x16 (75w max) Slot 2: half-length, full-height, PCle x1 Slot 3: half-length, full-height, 32-bit PCl 2.3 SATA DVD±RW Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive SATA cables Two SATA cables (each 1-drop to device), three SATA connectors and one eSATA connector on planar Slot 4: half-length,full-height, 32-bit PCI 2.3 eSATA port Diskette drive None Security Media reader None Security chip (see information on left) Intel Q45 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 Chipset One lock to secure both cover and Digital Office [ICH10DO] (SATA 3.0Gb/s with RAID 0/1 support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Front ports Rear ports Power-on password Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Internal connector Administrator password Hard disk password (user and master) Rear audio ports Audio High Definition (HD) Audio, Analog Devices AD1882 codec Boot sequence control Speaker One internal speaker for business audio Boot without diskette, keyboard Gigabit ethernet on planar, Intel 82567LM, Wake on LAN®, ASF2.0, DASH 1.0 Serial port I/O control Ethernet Intel Active Management Technology (iAMT) Individual USB port disablement Intel AMT Modem None Winbond® WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant Security chip Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), black, Lenovo logo Mouse Power supply 280 watts with variable speed fan, autosensing, 85% PSU Supports ThinkVantage® technologies Preloaded operating system²⁰ Accessories 1GB PC3-8500 DDR3 UDIMM 45J5434 Genuine Windows® 7 Professional 32 Climate Savers®-compliant EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified 45J5435 2GB PC3-8500 DDR3 UDIMM Preloaded applications⁵ (only some listed) 500GB SATA 3.0Gb/s Disk(7200 rpm) 43R1990 Rescue and Recovery™ 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Password Manager Super Multi-Burner DL DVD±RW SATA Drive 41N5620 Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 ThinkVantage System Update ThinkVantage Power Manager RoHS-compliant DisplayPort to Single-link DVI-D Cable 45J7915 ThinkVantage Toolbox Lenovo Online Data Backup DisplayPort to VGA Monitor Cable ATI™ Radeon™ HD 3470 256MB (DP, VGA) 57Y4393 Limited Warranty¹ 45K1636 Norton™ Internet Security 2009 3-year parts and labor NVIDIA® GeForce® 9500GT 512MB (DP, DVI)45K1635 NVIDIA Quadro® 256MB NVS 290 43R1765 NVIDIA Quadro 256MB NVS 295 45K1669 (30 days of virus definitions) Adobe® Reader® International Warranty Service⁹ Customer Replaceable Unit (CRU) Adobe Flash® Player parts only (with limited onsite service More accessories on O-M58 sheet Microsoft® Office 2007 Trial (60-day) Roxio® Creator® Business Edition for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays Acc Guide in pdf lenovo.com/accessoriesguide next business day response time) (DVD±RW) Other accessories at lenovo.com/accessories Roxio MyDVD® (DVD±RW) Onsite service upgrade options (in eligible locations):7 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warrantv Post warranty maintenance services available 24 hour x 7 day14 toll-free support

during the warranty period

via 800-426-7378

Partial list of accessories supported on ThinkCentre M58 and M58p

Memory

Eco Ultra Small 8820/7359/7637/9961/7479/6136 use notebook memory:

1GB PC3-8500	DDR3 SODIMM (n	otebook)	43R1987	ann 08/05/08
1GB PC3-8500	DDR3 SODIMM (2	!5-Pack)	51J0551	ann 03/17/09
2GB PC3-8500	DDR3 SODIMM (n	otebook)	43R1988	ann 08/05/08
2GB PC3-8500	DDR3 SODIMM (2	5-Pack)	51J0552	ann 03/17/09
1GB PC3-8500	DDR3 Low-Haloge	n SODÍMM	55Y3706	ann 06/23/09
1GB PC3-8500	DDR3 L-H SODIM	M (25-Pack)	57Y4385	ann 06/23/09
2GB PC3-8500	DDR3 Low-Haloge	n SODIMM	55Y3707	ann 06/23/09
2GB PC3-8500	DDR3 L-H SODIM	M (25-Pack)	57Y4386	ann 06/23/09

Small 8910/7360/6258/7638/9964/7483/7220/6137/6234, and Tower 9960/7373/6239/9965/7484/7188/6138/6209/3063/3285/9728/ 7639 use desktop memory:

1GB PC3-8500 DDR3 UDIMM	45J5434	ann 11/18/08
1GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4421	ann 11/10/09
2GB PC3-8500 DDR3 UDIMM	45J5435	ann 11/18/08
2GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4422	ann 11/10/09

Optical All:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max⁴ 41N5618 ann 09/26/06 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ann 09/26/06

Tower 9960/7373/6239/9965/7484/7188/6138/6209/3063/3285/9728/ 7639 support: Blu-ray™ Burner SATA 1.5Gb/s Drive

45K1675 ann 03/31/09

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm) 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm)	09N4254 41N3015 43R1990 45J7918	ann 05/19/03 ann 01/24/06 ann 11/06/07 ann 08/19/08
USB 2.0 Essential Memory Key 4GB USB 2.0 Essential Memory Key 8GB USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 1GB USB 2.0 Ultra Secure Memory Key 2GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Portable 320GB Hard Disk USB 2.0 Portable 500GB Hard Disk USB 2.0 Portable Secure 160GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk eSATA/USB 2.0 Secure 500GB Hard Drive USB 2.0 Super Multi-Burner Drive	45J7904 45J7905 45K1258 45J5915 45J5917 45J5918 45K1689 45K1690 43R2019 57Y4400 41N5565	ann 06/24/08 ann 07/15/08 ann 10/28/08 ann 08/26/08 ann 08/26/08 ann 08/26/08 ann 03/17/09 ann 05/26/09 ann 11/18/08 ann 11/18/08 ann 01/07/10 ann 01/23/07
USB 2.0 Portable DVD Burner	43N3264	ann 01/05/10

Graphics

Small 8910/7360/6258/7638/9964/7483/7220/6137/6234 support Low

ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI™ Radeon™ HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA® Quadro® 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA Quadro 256MB FX 370 Low-Profile	55Y9275	ann 07/28/09
NVIDIA GeForce® 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

Tower 9960/7373/6239/9965/7484/7188/6138/6209/3063/3285/9728/

7009 Support 75 Walls Hax.		
ADD2 DVI-D Monitor Connection (HDCP)	43R1985	ann 11/06/07
ATI Radeon HD 3470 256MB (DP, VGA)	45K1636	ann 11/18/08
NVIDIA Quadro 256MB NVS 290	43R1765	ann 12/18/07
NVIDIA Quadro 256MB NVS 295	45K1669	ann 04/21/09
NVIDIA GeForce 9500 GT 512MB (DP, DVI)	45K1635	ann 11/18/08
NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)	57Y4167	ann 03/02/10

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09
52 Wireless via 2 4GHz technology using a	micro-size II	SR receiver

More information at www.lenovo.com/support/keyboards

MOUSE		
Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse(ÚSB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam 40Y8519 ann 08/29/06 ThinkPad® In-Ear Headphones 57Y4488 ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock56 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock56 45K1620 ann 09/30/08 USB Gemplus GemPC Smart Card Reader 41N3040 ann 02/21/06 Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Mounting Device Eco Ultra Small 8820/7359/7637/9961/7479/6136 support under desk mounting device:

ThinkCentre Ultra Small Under Desk Mount 40Y8625 ann 09/06/05

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2 ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1 ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6 ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6 ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6 ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6 ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2 ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Eco Ultra Small 8820/7359/7637/9961/7479/6136 support:

41R4474 ann 01/27/09 Lenovo Vertical PC and Monitor Stand II

Lenovo USB-to-DVI Monitor Adapter 45K5296 ann 05/12/09 DisplayPort™ to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable 45J7915 ann 08/05/08 57Y4393 ann 08/04/09 ThinkVision USB Soundbar 40Y7616 ann 08/23/05 ThinkVision Soundbar 45K1263 ann 09/16/08 Kensington MicroSaver Cable Lock56 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock⁵⁶ 45K1620 ann 09/30/08 Radial Arm 19K4464 ann 05/05/00 ⁴⁶Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English Microsoft Office 2007 Small Business, Engl 43R1528 ann 07/03/07 43R1534 ann 07/03/07 Microsoft Office 2007 Professional, English 43R1531 ann 07/03/07

For more information on desktop accessories, please visit: www.lenovo.com/support/accessories www.lenovo.com/support/desktopaccessories www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide







Lenovo ThinkCentre M90/M90p Eco USFF



Lenovo ThinkCentre M90/M90p Eco USFF





Lenovo ThinkCentre M90/M90p SFF



Lenovo ThinkCentre M90/M90p SFF with ThinkVision L2251x (2578-HB6)





Lenovo ThinkCentre M90/M90p Tower



Lenovo ThinkCentre M90/M90p Tower

Slot x Type-model bay	Processor GHz C		SATA SAT		Monitor conn	ENERGY STAR 5.0		Preload	Recovery DVD	Global Educ	Avail date
3244-A1U 1x2	Core i3-530 2.93 Pentium G6950 2.80	2 2GB 25	50GB ² DVD±	RW Intel HD	VGA, DP	ES50	None	XP Pro XP Pro	Pro 32	None	Feb 10 Feb 10
•	The most powerful, sta These small and mediu These models have a 3	ole, and manage m business (SM	eable desktop IB) models are	with next gene	eration Inte	l platform	1	7			. 00 .0
Positioning Processor	Ultimate security, stabil Intel® Pentium® Proce Intel 64, Virtualization T dual-channel DDR3 me Intel Core™ i3 Proces Intel 64, Hyper-Threadi integrated 1333MHz duand 4MB cache	ssor G6950 with echnology, integ mory controller, sor i3-530 with a ng Technology, \	h dual-core , grated 1066MF 3MB cache o dual-core , Virtualization T	dz r echnology,		.25", 1.6"	high, a	optical access, no access	std opt	ical	
Implementation Memory	Processor in LGA1156 2GB std , 4GB max, PC two 204-pin SODIMM s	3-10600 1333 M ockets (noteboo	ok);		V X 9.4" [color; n X 3.1	netal case " H				
Graphics	Non-italics: standard m * System automatically DDR3 memory controll Intel HD Graphics in p	clocks down for			• 9.2 lb (• Hinged • Toolles	4.2 kg) in toolless s disk and	maxim cover for d optical	X 79mm num confi or easy s al drive re	guration erviceabi emoval	•	
DP dongle	HDCP, DirectX® 10**, u one analog VGA DB-15 supports dual independ ** DirectX 10 is only ava None	ses main memo connector, one ent display	ĎisplayPort™	• 55	Security Security	y chip (se y slot (in r	curity e informa ear for at	ation on	nt of		
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB, SATA 3.0Gb/s Super Multi-Burner DL Serial ATA, SATA 3.0Gb two SATA connectors for None None None	DVD±RW SATA /s, integrated in	chipset,			• F • H • E	able) Power-of- lard dis Boot se Boot wi	I Kensing on passwork passwork quence of thout key all USB p	ord ord ontrol board an	d mous	
Chipset	Intel Q57 Express Chi Platform Controller Hub SMSC® SCH5147 Supe	(PCH) for PCI,	ethernet, and	USB,							
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, micropho Six USB 2.0, ethernet (Line-in (stereo, 3.5mm) High Definition (HD) Au Internal speaker for bus One gigabit ethernet po None None STMicroelectronics ST TCG 1.2-compliant	RJ-45), monitor line-out (stered dio, Realtek® Al iness audio rt, Intel 82578D	(VGA DB-15, b, 3.5mm), mic LC662 codec M, Wake on L	DisplayPort) rophone-in (st AN®	,	• EI • EI	Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant				
Keyboard Mouse Power supply	Preferred Pro USB Key Optical Wheel Mouse (External AC/DC adapte	JSB connector),	, black, Lenovo	logo	ovo® logo	Sup	ports	ThinkVant			es
Preloaded opera - Windows® XP fthrough downg Windows 7 Pro Professional 32 Preloaded applie - Rescue and Re - Client Security - ThinkVantage F - ThinkVantage F - Lenovo System - Norton™ Intern (30 days of viru - Adobe® Reade - Adobe Flash® F - Skype™ for Wir - Microsoft® Offic - Corel® Burn.No	ating system ²⁰ Professional preinstalled rade rights in Genuine fessional (with Windows Recovery DVD) cations ⁵ (only some lister Solution™ Solution™ Productivity Center System Update Power Manager In Toolbox et Security 2009 us definitions) Player Indows Eve 2007 Trial (60-day) System (DVD±RW) VieFactory® (DVD±RW)	Accessorie 500GB SAT/ 1TB SATA 3 7 Super Multi- DisplayPort DisplayPort Lenovo Verti ThinkCentre More access Acc Guide ir		(7200 rpm) 200 rpm) D±RW SATA I DVI-D Cable or Cable onitor Stand II nder Desk Mo 90 sheet om/accessori	990 = = = = = = = = = = = = = = = = = =	International Custor Cu	parts and attional Warner Replaced par Fri cover: esservice esser	arranty S aceable t I limited of ts³, 8 am age excluday responses auggrade titions): x5, 4 hou bart number x5, 4 hou rt number x5, 4 hou rt number x5, 4 hou rt number x6, 4 hou rt number tr number tr number tr number tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number tr tr number	ervice ⁹ Jnit (CR Jn	ervice blidays, ie) nse 192) onse 93) is Day 94) onse 95) onse	

Type-model	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3244-A8U	1x2	Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Mar 10

- . The most powerful, stable, and manageable desktop with next generation Intel platform
- This small and medium business (SMB) model is part of the US TopSeller™ Program
- This model has a 3-year limited warranty

Positioning Processor Implementation Memory	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i3 Processor i3-530 with dual-core, Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket 2GB std, 4GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook); Non-italics: standard memory in one socket; one socket available	Bay ② 3.5", Slot 1: Low P	1.6" high, access, std optical 1" high, no access, std disk rofile, 32-bit PCI 2.3				
Graphics DP dongle	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display None	Business black color; metal case 11.0" W X 9.4" D X 3.1" H 279mm W X 238mm D X 79mm H 9.2 lb (4.2 kg) in maximum configuration Hinged toolless cover for easy serviceability Toolless disk and optical drive removal					
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical None None None	System floo	Security Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)				
Chipset	Intel Q57 Express Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Power-on password Hard disk password Boot sequence control				
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® None	,	Boot without keyboard and mouse Individual USB port disablement				
Modem Security chip	None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant				
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), black, Lenovo logo External AC/DC adapter, 130 watts, autosensing, 87% PSU	ovo® logo	GREENGUARD® certified RoHS-compliant				
Proloaded energy	ating system ²⁰ Assessarios		Supports ThinkVantage® technologies				

Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed)

■ Rescue and RecoveryTM

- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009 (30 days of virus definitions)
- Àdobe® Reader®
- Adobe Flash® Player Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day) Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Accessories

500GB SATA 3.0Gb/s Disk(7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable
DisplayPort to VGA Monitor Cable 45J7915 57Y4393 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196) ThinkPlus services at
- lenovo.com/thinkplus/warranty Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

Slot x Type-model bay	Processor	GHz Cores Memory	SATA 8 disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0		Preload	Recovery DVD	Global Educ	Avail date		
3692-A1U 1x2 3692-A2U 1x2 3692-A3U 1x2	Pentium G6950 Pentium G6950 Core i3-530	2.80 2 1GB	250GB ² 250GB 250GB	DVD DVD±RW	Intel HD	VGA, DP VGA, DP	ES50 ES50	None None	XP Pro XP Pro		None None	Feb 10 Feb 10 Feb 10		
		stable, and manage have a 3-year limite			ext generat	ion Intel p	olatform							
Positioning Processor	Intel® Pentium Intel 64, Virtuali dual-channel D Intel Core™ i3 Intel 64, Hyper-	ty, stability, and man Processor G6950 zation Technology, DR3 memory contro Processor i3-530 v Threading Technology MHZ dual-channel	with duantegrated oller, 3MB with dual- egy, Virtua	5.25", 1.6 3.5", 1"	B" high, high,	no acce		tical						
Implementation	Processor in LO						Low Profil	-						
Memory	two 204-pin SO Non-italics: star * System autom DDR3 memory		ebook); e socket;	one socket	available	• 11.0' • 279n • 9.2 lk • Hing	ness black ' W X 9.4" nm W X 23 o (4.2 kg) in ed toolless ess disk ar	D X 3. 88mm [n maxi s cover	1" H D X 79mr mum cor for easy	m H Ifiguration serviceab	ility			
Graphics DP dongle	HDCP, DirectX [®] (up to 512MB [one analog VG/ supports dual ir	nics in processor, 10**, uses main m 1GB model], 1GB [2 A DB-15 connector, ndependent display only available with	GB mode one Disp	layPort™ co	,	• Syste		Securi Securi	S ty chip (s ty slot (ir	ecurity see informa	ation on	nt of		
SATA disk SATA DVD SATA DVD±RW SATA Controller eSATA port Diskette drive	250GB, SATA 3 DVD-ROM DL S Super Multi-Bur Serial ATA, SAT two SATA conne None None	GB, SATA 3.0Gb/s 7200 rpm D-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive per Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive ial ATA, SATA 3.0Gb/s, integrated in chipset, SATA connectors for disk and optical ie							optional Kensington® MicroSaver® cable) Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement					
Media reader Chipset	None Intel Q57 Expr Platform Control SMSC® SCH51	oller Hub (PCH) for	PCI, ether	rnet, and U	SB,									
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, et Line-in (stereo, High Definition Internal speake One gigabit eth None None STMicroelectro	nicrophone (stereo, hernet (RJ-45), mo 3.5mm), line-out (s (HD) Audio, Realtel r for business audic ernet port, Intel 825 nics ST19NP18 Tru	nitor (VGA ereo, 3.5 & ALC662 78DM, W	A DB-15, Di mm), micro 2 codec ake on LAN	splayPort) phone-in (s	,	• E	Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant						
	TCG 1.2-compl	iant					Supports ThinkVantage® technologies							
Keyboard Mouse Power supply	Optical Wheel N	USB Keyboard (USE Mouse (USB connections) Cadapter, 130 watts	tor), blac	k, Lenovo ľo	ogo	iovo® logo	<i>⇒</i>	Inter	ır parts a national \	Warranty S	ervice ⁹			
through downg Windows 7 Pro Professional 3. Preloaded appli • Rescue and R • Client Security • ThinkVantage	Professional preigrade rights in Geofessional (with V2 Recovery DVD) cations⁵ (only so ecovery™ Solution™ Productivity Cent System Update Power Manager n Toolbox net Security 2009 us definitions) er® Player ndows ce 2007 Trial (600 ow™ (DVD±RW) vieFactory® (DVD	enuine 1TB SA Vindows 7 DVD-RC Display Display Lenovo ThinkCe More ac Acc Gu Other a	triangle in the state of the st						only (wii- lected p - Fri cove business te service igible locear LOR inkPlus™ rear LOR pinkPlus p rear LOR inkPlus p rear LOR i	inkplus/wa maintena able ny ¹⁴ toll-fre rranty per	onsite s 1 - 5 pm, uding ho onse tim options ur respo oer 41C9 our resp r 41C918 Busines r 41C919 rr 41C919 rr 41C919 rranty nce e suppo	ervice blidays, ie) nse 192) onse 93) ss Day 94) onse 95) onse		

Type-model	Slot x bay		GHz	Cores	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3692-A4U		Core i3-530	2.93	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10
3692-E7U		Pentium G6950	2.80	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	None	Pro 32	None	Feb 10

- . The most powerful, stable, and manageable desktop with next generation Intel platform
- These models have a 3-year limited warranty

Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core, Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core, Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket	Bay ② 3.5",	nall optical disk 1.6" high, access, std optical 1" high, no access, std disk rofile, 32-bit PCI 2.3			
Memory	2GB std, 4GB max, PC3-10600 1333MHz DDR3*, two 204-pin SODIMM sockets (notebook); Non-italics: standard memory in one socket; one socket available * System automatically clocks down for processors with 1066MHz DDR3 memory controller	• 11.0" W X 9 • 279mm W > • 9.2 lb (4.2 k • Hinged tooll	ack color; metal case 1.4" D X 3.1" H C 238mm D X 79mm H gg) in maximum configuration less cover for easy serviceability k and optical drive removal			
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB),		r stand for vertical orientation			
	one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display		Security			
DP dongle	None		Security chip (see information on left) Security slot (in rear for attachment of			
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical None None None		Security slot (internal for attachment of optional Kensington® MicroSaver® cable) Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement			
Chipset	Intel Q57 Express Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		,			
Front ports Rear ports Rear audio ports Audio Speaker	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stringh Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	,				
Ethernet	One gigabit ethernet port, Intel 82578DM, Wake on LAN®		Environmental Features			
Intel AMT Modem Security chip	None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant			
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), black, Lencov logo					
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU	Supports ThinkVantage® technologies				
			Limited Warranty			

Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed) • Rescue and Recovery[™]

- Password Manager ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox Norton™ Internet Security 2009 (30 days of virus definitions)

- Adobe® Reader®
 Adobe Flash® Player
 Skype™ for Windows
 Microsoft® Office 2007 Trial (60-day)
 Corel® Burn.Now™ (DVD±RW)
 Corel DVD MovieFactory® (DVD±RW)

Accessories

500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable 45J7915 57Y4393 Lenovo Vertical PC and Monitor Stand II 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU) parts only (with limited onsite service
- for selected parts3, 8 am 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

											<u> </u>		
Slot x Type-model bay		z Cores Memory ⁸	SATA disk	SATA optical	Graphics	conn	ENERGY STAR 5.0	vPro	Preload	Recovery DVD	Educ	Avail date	
3245-A2U 2x3 3245-A8U 2x3	Pentium G6950 2.8	dium business (ageable de SMB) mod		Intel HD 310 next gene			None None	XP Pro	Pro 32 Pro 32 Pro 32	None	Feb 10 Feb 10 Feb 10	
Positioning Processor	Ultimate security, sta Intel® Pentium® Pro Intel 64, Virtualizatio dual-channel DDR3 Intel Core™ i3 Proc Hyper-Threading Te 1333MHz dual-chan Intel Core i5 Proces Intel 64, Virtualizatio (up to 3.20 GHz at dual-channel DDR3 Processor in LGA11	ocessor G6950 to Technology, in memory controll tessor i3-530 with chnology, Virtual to DDR3 memossor i5-750 with on Technology, Tunax turbo mode) memory controll	with dual-outlegrated 1 er, 3MB cannot be dual-controlly controlly quad-corurbo Boost integrated	core, 066MHz ache or ore,Intel 64, chnology, in ler, 4MB ca e, Technolog d 1333MHz	itegrated ache or	Bay ① 5.25", 1.6" high, access, std optical Bay ② 3.5", 1" high, no access, std disk Bay ③ 3.5", .5" high, access, open (reader) Slot 1: Low Profile, PCI Express 2.0 x16 (75w max) Slot 2: Low Profile, 32-bit PCI 2.3 • Business black color; metal case							
Implementation Memory	2GB or 3GB std, 80 four 240-pin DIMM s Italics: standard Non-italics: standard * System automatica DDR3 memory cont	BB max, UDIMM sockets; d memory in two d memory in one ally clocks down roller	sockets; to socket; th for proces	wo sockets ree sockets sors with 1	available; s available 066MHz	 • business black color, metal case • 12.5" W X 14.0" D X 3.9" H • 317mm W X 355mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinge • Toolless disk, optical drive removal • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation 							
Graphics DP dongle	A8U: one Disp NVIDIA one ana	ain mėmory (up to playPort™ conne ® GeForce® 310 , log VGA DB-15 d DirectX 10, NVID	• S • S op ca	Security • Security chip (see information on let • Security slot (in rear for attachment optional Kensington® MicroSaver® cable) • Power-on password									
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 500GB, S Super Multi-Burner I Serial ATA, SATA 3.0 two SATA connector None None None	DL DVD±RW SA DGb/s, integrated	TA 1.5Gb/s ∣in chipse				• B • B	Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement					
Chipset	Intel Q57 Express (Platform Controller I SMSC® SCH5147 S	Hub (PCH) for PC	CI, etherne	et, and USE	3,								
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet	Two USB 2.0, micro Six USB 2.0, serial (Line-in (stereo, 3.5m Two USB 2.0 planar High Definition (HD) Internal speaker for One gigabit etherne	(9-pin), ethernet nm), line-out (ste conn (1 used; o Audio, Realtek® business audio	(RJ-45), m reo, 3.5mm ne open fo ALC662 o	nonitor (VG m), microph or media rea codec	A DB-15, E none-in (ste ader or 2 re	DisplayPort ereo, 3.5mr	n) orts) • EN • GF • Rc	Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant					
Intel AMT Modem Security chip	None None STMicroelectronics						Sup	ports I		age® tec d Warrar		es	
Keyboard Mouse Power supply	TCG 1.2-compliant Preferred Pro USB & Optical Wheel Mous 240 watts with 85%		4	 ⇒ 3-year parts and labor ⇒ International Warranty Service⁹ ⇒ Customer Replaceable Unit (CF parts only (with limited onsite s for selected parts³, 8 am - 5 pm 									
through downg Windows 7 Pro Professional 32 Preloaded applii Rescue and Re Client Security ThinkVantage I ThinkVantage I Lenovo System Norton™ Intern Adobe® Reade Adobe Flash® I Skype™ for Win Microsoft® Offic Corel® Burn.No	Professional preinstal rade rights in Genuin fessional (with Windows Recovery DVD) cations (only some lecovery Meroductivity Center System Update Power Manager in Toolbox et Security 2009 (30-12) Player ndows by Meroductivity (bVD±RW) vieFactory (DVD±RW)	e 2GB PC3 ows 7 500GB S. 1TB SATA Super Mu DisplayPc DisplayPc NVIDIA G NVIDIA G More acc Acc Guide dday) Other acc	General Steel 2GB PC3-10600 DDR3 UDIMM 57Y4390 43R1990 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 43R1990 43P1990						age excluar responsible for the manufacture of the	iding house timoptions options or responder 41C91 Business 41C919 responder 41C919 responder 41C919 responder 41C919 responder 41C919 responder esuppose suppose suppose suppose suppose timoptions options of the suppose suppose suppose suppose timoptions options options of the suppose suppose suppose suppose suppose timoptions options of the suppose	nse 192) onse 33) s Day 44) nse 95) onse		

Type-model S	Slot x bay	Processor	GHz	Cores	Memory ⁸	SATA disk	SATA optical	Graph	ics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date		
3245-B3U	2x3 2x3 2x3	Core i3-530 Core i3-530 Core i5-750	2.93 2.93 2.66	2 2 4	2GB 4GB 3GB	250GB ² 320GB 500GB	DVD±RW DVD±RW DVD±RW	Intel I Intel I 310			ES50 ES50 ES50	None None None	Pro 32 Pro 64 Pro 32	None None None	Mar 10 Mar 10 Mar 10		
	•	The most power These small are These models	nd medi	um bu	siness (Šl	MB) mode											
Positioning Processor		Ultimate securintel® Core™ i: Hyper-Threadin 1333MHz dual Intel Core i5 P Intel 64, Virtua (up to 3.20 GH dual-channel D	3 Procest Process It at ma	essor i nology el DDR or i5-7 Techno x turbo emory	3-530 with y Virtualiza 3 memory 750 with q ology, Turk o mode), in controller	n dual-cor ation Tech / controlle uad-core, to Boost T ntegrated	re, Intel 64, nology, integ r, 4MB cache echnology 1333MHz	ırated	Bay	/ ① 5.25", / ② 3.5", / ③ 3.5",	optical disk (in rear) , 1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader)						
Implementat Memory	ion	Processor in Lo 2GB, 3GB, or PC3-10600 13 Italics: sta Non-italics: sta	4GB sto 33MHz ndard r	d, 8GB DDR3 nemor	max, UD , four 240	-pin DIMM ockets; two	o sockets ava		• B • 12 • 3		ofile, 32-bi ack color; r 4.0" D X 3 355mm D	t PCI 2. netal ca .9" H .X 99mi	3 se m H)		
Graphics		179 one one sup	es main 59MB [- e analo e Displa ports o	memo 4GB m g VGA ayPort™ lual ind	ory (up to odels]), DB-15 co connect dependent	765MB <i>[2</i> 0 nnector, or, t display	CP, DirectX [®] GB models], ss [®] 2.0 x16 a		• To • To • To • To	colless covered to colless distributed to colless ada colless system floor	(355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hing k, optical drive removal apter retention stem board retention or stand for vertical orientation Security						
DP dongle							one DisplayPo eo®, NVIDIA				 Securit 	ý slot (ì	see inform n rear for a	attachme	nt of		
SATA disk SATA DVD±F SATA Contro eSATA port Diskette driv Media reade	oller e	250GB, 320GE Super Multi-Bu Serial ATA, SA' two SATA conn None None None	rner DL TA 3.0G	DVD±	RW SATA tegrated in	1.5Gb/s chipset,					optional Kensington® MicroSaver® cable) Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement						
Chipset		Intel Q57 Expi Platform Contro SMSC® SCH51	oller Hu	ıb (PCI	H) for PCI	, ethernet,	, and USB,										
Audio Speaker Ethernet		Two USB 2.0, s Six USB 2.0, s Line-in (stereo, Two USB 2.0 p High Definition Internal speake One gigabit eth	microph erial (9- 3.5mm lanar co (HD) A er for bu	one (s pin), e n), line- onn (1 udio, F usiness	thernet (F out (stere used; one Realtek® A audio	NJ-45), mo o, 3.5mm) open for LC662 co	nitor (VĞA E), microphon media reade dec)B-15, [e-in (st	Displ ereo,	3.5mm)		M Gold i Y STAF IGUAR[R® 5.Ö-com D® certified	pliant			
Intel AMT Modem Security chip)	None None STMicroelectro		Γ19NP	18 Trusted	d Platform	Module (TP	M),			Supports		antage® te		es		
Keyboard Mouse Power suppl	v	Preferred Pro U Optical Wheel 240 watts with	JSB Ke Mouse	(USB d	connector), black, Le	enovo ĺogo	•		Ü	□ Internology □ Custo □ C	r parts a ational mer Re	ted Warra and labor Warranty S placeable	- Service ⁹ Unit (CR			
- Some: G PI - Some: G PI Preloaded: Some listed; Rescue a Password ThinkVan ThinkVan ThinkVan Norton™ (30 days o Adobe® FI Skype™ fi Microsoft Corel® Bu	enuin rofess enuin rofess application of the second	ager System Update Ower Manager Foolbox et Security 2009 s definitions) Player	9 O-day)	10 20 50 11 S V D D N N N	GB PC3-1 DOGB SAT TB SATA Cuper Multi isplayPort isplayPort VIDIA Ge VIDIA Quore acces cc Guide i	0600 DDF 0600 DDF A 3.0Gb/s B.0Gb/s Di- Burner D to Single to VGA M Force 512 adro® 512 ssories on	R3 UDIMM R3 UDIMM S Disk (7200 S Disk (7200 rpr L DVD±RW -link DVI-D C flonitor Cable MB 310 (DP MB FX380 L O-M90 shee DVO.com/acc lenovo.com	n) SATA D Cable (, VGA) P (DP, et	Prive DVI) esgui	45J7915 57Y4393 57Y4397 57Y4396	for se Mon - next l i Onsit (in eli	lected price to the control of the c	ninkplus/wa y maintena lable ay ¹⁴ toll-fre arranty pei	n - 5 pm, uding ho onse time options ur respo ber 41C91 Busines er 41C915 ur respo er 41C915 ur respo er 41C915 er 41C915 er 41C915 er 41C915 er 41C915 er 41C915 er 41C915 er 41C915 er 41C915 er 41C915 er 41C915	nse 192) oonse 33) ss Day 94) nse 95) oonse		

Slot x	SATA SATA Monitor ENEI	RGY Intel Recovery Global Avail
Type-model bay	Processor GHz Cores Memory ⁸ disk optical Graphics conn STAF	R 5.0 vPro Preload DVD Educ date
5485-A2U 2x3 5485-A3U 2x3 5485-A4U 2x3	Pentium G6950 2.80 2 1GB 250GB² DVD Intel HD VGA, DP ES Pentium G6950 2.80 2 2GB 250GB DVD±RW Intel HD VGA, DP ES Core i3-530 2.93 2 2GB 250GB DVD±RW Intel HD VGA, DP ES Core i5-750 2.66 4 3GB 500GB DVD±RW 310 VGA, DP ES The most powerful, stable, and manageable desktop with next generation Intel pla These models have a 3-year limited warranty	50 None XP Pro Pro 32 None Feb 10 50 None XP Pro Pro 32 None Feb 10 50 None XP Pro Pro 32 None Feb 10
Positioning Processor Implementation Memory	Intel 64, Ryper-Threading rechnology, Virtualization rechnology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core, Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket 1GB, 2GB, or 3GB std, 8GB max, UDIMM, 16.5 lb (7.5 Toolless coverage) PC3-10600 1333MHz DDR3*, four 240-pin DIMM sockets; 150 less coveraged to a condend moment, in two collects; two codes to a collected of the condend moment, in two collects; two codes to a collected of the col	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader) ofile, PCI Express 2.0 x16 (75w max) ofile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H 3555mm D X 99mm H kg) in maximum configuration er flips up and tilts backward on rear hinges k, optical drive removal
	Non-italics: standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz.	upter retention tem board retention r stand for vertical orientation
Graphics	A1U/A2U/A3U: Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 512MB [1GB model], 1GB [2GB and 3GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display A4U: NVIDIA® GeForce® 310, PCI Express® 2.0 x16 adapter, 512MB, one analog VGA DB-15 connector, one DisplayPort connector, HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, 30 watts	Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control
DP dongle	** DirectX 10 is only available with Windows Vista and later None	Boot without keyboard and mouse Serial port I/O control
SATA disk SATA DVD SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 500GB, SATA 3.0Gb/s 7200 rpm Some: DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical None None None	Individual USB port disablement
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O	Environmental Features •EPEAT™ Gold rating •ENERGY STAR® 5.0-compliant
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort)	GREENGUARD® certified RoHS-compliant
	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	Supports ThinkVantage® technologies Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm,
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), black, Lenovo logo 240 watts with 85% efficiency, auto-sensing, active Power Factor Correction	Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations): ⁷
through downg Windows 7 Pro Professional 32 Preloaded applie • Rescue and Re • Client Security • ThinkVantage F • ThinkVantage F • Norton™ Intern • Microsoft® Offic • Corel® Burn.No	Tofessional preinstalled ade rights in Genuine essional (with Windows 7 Recovery DVD) ations⁵ (only some listed) DVD-ROM DL SATA 1.5Gb/s 16X-48X Max 41N5618 Super Multi-Burner DL DVD±RW SATA Drive 45J7915 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396 More accessories on O-M90 sheet ecceptor® (DVD±RW) 1GB PC3-10600 DDR3 UDIMM 57Y4390 S7Y4390 PX 43R1990 PX 43R1990 PX 43R1990 PX 43R1990 PX 43R1990 PX 45J7918 PX 45J7918 P	3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x					SATA	SATA		Monitor	ENERGY	V Intel	Win7	Global	Avail		
Type-model bay	Processor		Cores	Memory ⁸	disk	optical	Graphics	conn	STAR 5.	0 vPro	preload	Educ	date		
5485-A5U 2x3 5485-E3U 2x3 5485-E4U 2x3	Core i3-530 Pentium G69 Core i5-750	2.93 50 2.80 2.66	2 2 4	2GB 2GB <i>3GB</i>	250GB ² 250GB 500GB	DVD±RW DVD±RW DVD±RW	Intel HD Intel HD 310	VGA, DP VGA, DP VGA, DP	ES50		Pro 32 Pro 32 Pro 32	None	Feb 10 Feb 10 Feb 10		
	The most po These mode					o with next gen	eration Int	el platfori	n						
Positioning Processor	Ultimate sec Intel® Pentiu Intel 64, Virti dual-channe Intel Core™ Intel 64, Hyp integrated 13 4MB cache of Intel 64, Virti (up to 3.20 of dual-channe	Im [®] Procesualization Tell DDR3 mellisation	ssor G6 echnology cor i3-53 ng Technology r i5-750 echnology turbo m mory co	950 with cgy, integra introller, 31 30 with du nology, Vir nel DDR3 with quad gy, Turbo E node), integ	lual-core, ted 1066M MB cache of al-core, tualization memory co d-core, Boost Tech grated 133	Technology, ontroller,	Bay ② 3 Bay ③ 3 Slot 1: L Slot 2: L • Busine • 12.5" \	5.25", 1.6" 3.5", 1" h 3.5", .5" h ow Profile ow Profile ess black of W X 14.0"	igh, no nigh, ac , PCI Ex , 32-bit F color; me D X 3.9"	access cess, press 2 PCI 2.3 etal case ' H	std opt s, std dis open (i .0 x16 (7	k reader))		
Implementation	Processor in							n W X 355) (7.5 kg) i				า			
Memory	Non-italics: s	1333MHz D standard me standard me comatically	DR3*, femory in emory in clocks d	our 240-pi 1 two sock 1 one sock	ets; two so et; three so	ockets; ckets available ockets available vith 1066MHz	• Toolles • Toolles • Toolles • Toolles	ss cover fl ss disk, op ss adapter ss system n floor sta	ips up ar otical driv retentio board re	nd tilts b re remo n etention	oackward val	on rear	hinges		
Graphics	0 S E4U: N	DCP, Directine analog \ upports dua VIDIA® Ge ne analog \	tX® 10, /GA DB al indep Force ® /GA DB	uses main -15 conne endent dis 310 , PCI E -15 conne	memory (ctor, one E play Express® 2 ctor, one E	up to 765MB), DisplayPort™ co .0 x16 adapter, DisplayPort con		Security optional l cable) Power-or	chip (se slot (in Kensing n passw		ıttachme	nt of			
DP dongle	None	DCF, Direc	LX 10, I	IVIDIA FU	revideo*, i	NVIDÍA CUDA™	• !	Hard disk password Boot sequence control							
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 50 Super Multi-I Serial ATA, S two SATA co None None None	Burner DL I SATA 3.0Gb	OVD±R\ /s, integ	V SATA 1. rated in ch	5Gb/s Driv	• (Serial po	rt I/O c	/board ar ontrol oort disat		е				
Chipset	Intel Q57 Ex Platform Cor SMSC® SCH	troller Hub	(PCH) f	for PCI, et	hernet, and	d USB,			Eı	nvironr	nental Fe	eatures			
Front ports Rear ports Rear audio ports Internal connecto	Six USB 2.0, Line-in (stere	serial (9-p eo, 3.5mm), planar cor	in), ethe line-ou in (1 us	ernet (RJ-4 t (stereo, 3 ed; one op	5), monito 3.5mm), mi en for med	dia reader or 2	DisplayPo tereo, 3.5r	rt) • E nm) • G		STAR® UARD®	ting 5.0-com certified				
Audio Speaker Ethernet	Internal spea	ker for bus	iness au	udio				Su	oports Th	ninkVar	tage® ted	chnologi	es		
Intel AMT	None	etnernet po	ri, irilei	02370DIVI,	, wake on	LAIN				Limite	ed Warra	nty¹			
Modem Security chip	None STMicroelec TCG 1.2-cor	npliant						<i>⇒</i>	Custom	ional W er Rep	arranty S aceable	Unit (CR			
Keyboard Mouse Power supply	Optical Whe	el Mouse (L	JSB còn	nector), b	lack, Lenov	key, black, Len o logo Power Factor C	· ·		for sele Mon - F	cted pa ri cove	n limited rts³, 8 am age excl day respe	n - 5 pm, uding ho	olidays,		
Preloaded oper	• •			essories	ו משטח חט	IDIMM	E7\/		Onsite s	service	upgrade				
Preloaded appli Rescue and R Password Mar ThinkVantage ThinkVantage ThinkVantage Norton™ Interr (30 days of vir Adobe® Reade Adobe Flash® Skype™ for Wi Microsoft® Offi Corel® Burn.N Corel DVD Mo	cations ⁵ (only ecovery [™] lager System Updat Power Manag Toolbox net Security 20 us definitions) er® Player ndows ce 2007 Trial (ow™ (DVD±R\	e some liste eer 009 60-day)	2GB 5000 1TB Supe Disp Disp NVII NVII More	1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 NVIDIA GeForce 512MB 310 (DP, VGA) 57Y4397 NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396 More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories						r LOR S ⟨Plus™ r LOR 2 ⟨Plus pa r LOR S ⟨Plus pa r LOR S ⟨Plus pa r LOR 2 ⟨Plus pa us serv com/thi urranty s availa x 7 day	2x5, 4 hou part numbe 24x7, 4 hou trt numbe 2x5, Next trt numbe 2x5, 4 hou trt numbe 24x7, 4 hou trt numbe vices at nkplus/wa maintena ble 1 de for hou trt numbe	per 41C9 pur responder 41C919 ur responder 41C919 pur responder 41C919 pur responder 41C919 pur responder 41C919 pur responder 41C919	192) onse 93) ss Day 94) nse 95) onse		

Slot :			NERGY Intel Recovery Global Avail						
Type-model bay 3246-A1U 4x4	Processor GHz Cores Memory® disk Bay optical Graphi Pentium G6950 2.80 2 2GB 250GB² None DVD±RW Intel®		FAR 5.0 vPro Preload DVD Educ date ES50 None XP Pro Pro 32 None Feb 10						
3246-A2U 4x4 3246-A9U 4x4	Core i3-530 2.93 2 2GB 250GB None DVD±RW Intell Core i5-750 2.66 4 3GB 500GB None DVD±RW 310 The most powerful, stable, and manageable desktop with next gene These small and medium business (SMB) models are part of the US These models have a 3-year limited warranty	ID VGA, DP I VGA, DP I ration Intel pla	ES50 None XP Pro Pro 32 None Feb 10 ES50 None XP Pro Pro 32 None Feb 10 htform						
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core, Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core, Intel 64, Intel Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core, Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache Processor in LGA1156 socket	6.9" W X 17 175mm W X 24.2 lb (11. Handle on t Power butto Toolless co Tilted front Toolless dis Toolless ad	on on top handle ver removal I/O for easy access k, optical drive removal apter retention						
Memory	2GB or 3GB std, 8GB max, UDIMM, PC3-10600 1333MHz DDR3*, four 240-pin DIMM sockets; Italics: standard memory in two sockets; two sockets available; Non-italics: standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5", Slot 1: half-le	1" hiğh, no access, std disk ngth,full-height, PCIe 2.0 x16 (75w max)						
Graphics	DDR3 memory controller A1U/A2U: Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB),	Slot 3: half-le	ngth,full-height, PCIe 2.0 x1 ngth,full-height, 32-bit PCI 2.3 ngth,full-height, 32-bit PCI 2.3						
	one analog VGA DB-15 connector, one DisplayPort™ consupports dual independent display A9U: NVIDIA® GeForce® 310, PCI Express® 2.0 x16 adapter, 5 one analog VGA DB-15 connector, one DisplayPort conned the DCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CUDA™, ** DirectX 10 is only available with Windows Vista and later	12MB, ector,	Security • Security chip (see information on left) • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock)						
DP dongle	None		Security slot (in rear for optional Kensington® MicroSaver® cable)						
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 500GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical None None None None	/D±RW SATA 1.5Gb/s Drive , integrated in chipset,							
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Environmental Features						
	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DLine-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo Would be used), one open for media reader or 2 resulting the properties of t	e (stereo, 3.5mm), headphone (stereo, 3.5mm) 1), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) 1) ine-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) 1) (1 used; one open for media reader or 2 rear USB ports) 1) io, Realtek® ALC662 codec 1) ness audio 1, Intel 82578DM, Wake on LAN®							
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno Optical Wheel Mouse (USB connector), black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	vo® logo	parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)						
through down Windows 7 Pr Professional 3 Preloaded appl • Rescue and F • Client Securit • ThinkVantage • ThinkVantage • ThinkVantage • Lenovo Syste • Norton™ Inter • Adobe® Read • Microsoft® Off • Corel® Burn.N	Professional preinstalled grade rights in Genuine ofessional (with Windows 7 2 Recovery DVD) ications⁵ (only some listed) ecovery™ r Solution™ Productivity Center System Update Power Manager m Toolbox net Security 2009 (30-day) er® ce 2007 Trial (60-day) ow™ (DVD±RW) wieFactory® (DVD±RW)	45J7915 57Y4393 57Y4397 sguide	 Onsite service upgrade options (in eligible locations):⁷ 3-year LOR 9x5, 4 hour response						

Slot Type-model bay		r GHz	Cores	Memory ⁸	SATA disk	2nd Disk Bay		Graphics	Monitor	ENERGY STAR 5.0		Win7 preload	Global Educ	Avail date	
3246-B1U 4x4 3246-B2U 4x4 3246-B4U 4x4	Core i3-53 Core i5-75	0 2.93 0 2.66	2 4	2GB 3GB 4GB	250GB ² 500GB 320GB		DVD±RW DVD±RW DVD±RW	Intel HD 310	VGA, DI VGA, DI	P ES50 P ES50	None None None	Pro 32 Pro 32 Pro 64	None None	Mar 10 Mar 10 Mar 10	
	The most pThese smallThese mod	I and med	lium bu	siness (Ŝ	MB) mod										
Positioning Processor	Ultimate se Intel® Core Intel 64, Int Virtualization DDR3 mem Intel Core Intel 64, Vir (up to 3.20 dual-chann	™ i3 Procel Hyper-Technology contrology con	essor if Threadin logy, int oller, 4N sor i5-7 n Techno ax turbo memory	3-530 with a Technology Technology Technology Technology Turk to mode), is controlled.	th dual-cology, 333MHz or quad-cologo integrate	core, dual-chare, t Technolo d 1333Mi	innel	• 6.9" \ • 175m • 24.2 • Hand • Powe • Toolle	N X 17.4 nm W X 4 lb (11.0 k dle on top er button ess cove	k color; me " D X 16.3 42mm D X (g) in max front on top har removal) for easy	" H < 414mı configu ıdle	m H	optica ② ③ disk		
Implementation Memory	Processor i 2GB, 3GB, PC3-10600 Italics: Non-italics:	or 4GB s 1333MH standard	td, 8GE z DDR3 memor	max, UE , four 240 y in two s	illess disk, optical drive removal illess adapter retention 5.25", 1.6" high, access, std optical										
Graphics		uses mair 1759MB <i>[</i>	n memo 4GB m	ry (up to odels]),	3.5", 1 3.5", 1	" high, ˈa	ccess, o acces	s, std dis							
	B2U:	one analo one Displa supports (NVIDIA ® (ayPort™ dual ind GeForc	onnectoric connectoric lf-leng	th,full-heig th,full-heig th,full-heig	ht, 32-	bit PCI 2.	3							
DP dongle		512MB, o HDCP, Di			ts	Security		curity	otion on	loft)					
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB, 320 Super Multi	-Burner D SATA 3.0	L DVD± Gb/s, in	ERW SAT/ tegrated i		One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Hard disk password									
Chipset	Intel Q57 E Platform Co SMSC® SC	ntroller H	ub (PC	H) for PC	I, ethern	et, and U	SB,			Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement					
Front ports Rear ports Rear audio port: Internal connect Audio Speaker Ethernet	Two USB 2 Six USB 2.0 S Line-in (ste for Two USB 2 High Defini Internal spe One gigabit	D, serial (9 reo, 3.5m O planar o tion (HD) b eaker for b	9-pin), e m), line- conn (1 Audio, F ausiness	thernet (Fout (stere used; one Realtek® As audio	RJ-45), n eo, 3.5m e open fo ALC662 (nonitor (V m), micro or media r codec	ĠA DB-15, phone-in (s eader or 2	DisplayP tereo, 3.5	ports)	EPEAT™ ENERGY GREENG RoHS-coi	Gold ra STAR® UARD®	5.0-com			
Intel AMT Modem	None None	Culcinct	port, iii	101 02070	Divi, vvai	NO OII EAI	•		5	Supports T	hinkVar	ntage® ted	chnologi	es	
Security chip	STMicroele TCG 1.2-cd		T19NP	18 Truste	d Platfor	m Module	e (TPM),			⇒ 3-year p		ed Warra Id labor	nty¹		
Keyboard Mouse Power supply	Preferred P Optical Who 280 watts v	eel Mouse	(USB	cònnector	r), black,	Lenovo lo	ogo	ovo® logo			ner Repl nly (witl		Unit (CR onsite s	ervice	
Profe - Some: Genu Profe Preloaded app some listed) • Rescue and • Password Ma • ThinkVantage • ThinkVantage • ThinkVantage • Norton™ Inte	ine Windows® ssional 32 ine Windows 3 ssional 64 ine Windows 3 ssional 64 ine Windows 5 sional 64 ine Windows 5 ine Windows 5 ine Windows 6 i	OSes; on the ger 2009 (60-day)	29 55 11 S D N M A	ccessori GB PC3 GB PC3 GB PC3 GB SATA UPER Mult isplayPor isplayPor VIDIA Ge lore acces cc Guide ther acces	57Y 43F 45J Drive 41N 45J 57Y 57Y	7918 15620 7915 (4393 (4397	next bu Onsite: (in eligi • 3-yea (Thinl) • 3-yea (Thinl) • 4-yea (Thinl) • 4-yea (Thinl) • 4-yea (Thinl) • 4-yea (Thinl) • Post was service • 24 hour	siness service ble loca tr LOR 2 kPlus™ ir LOR 2 kPlus pa	ations):7 bx5, 4 hou part numbe cart numbe bx5, Next art numbe bx5, 4 hou art numbe cax5, 4 hou art numbe cax6, 4 hou art numbe cices at nkplus/wa maintena ble p14 toll-fre ranty per	onse tim options ar respo per 41C9 our respo Businese r 41C91s ar respo r 41C91s our respo r 41C91s rranty nce	nse 192) onse 33) ss Day 94) nse 95) onse				

Slot x Type-model bay	SATA 2nd Disk SATA Processor GHz Cores Memory® disk Bay optical Graph		IERGY Intel Recovery Global Avail AR 5.0 vPro Preload DVD Educ date
5474-A2U 4x4 5474-A3U 4x4 5474-A4U 4x4	Pentium G6950 2.80 2 2GB 250GB None DVD±RW Intell	HD VGA, DP E HD VGA, DP E HD VGA, DP E VGA, DP E	S50 None XP Pro Pro 32 None Feb 10 S50 None XP Pro Pro 32 None Feb 10 S50 None XP Pro Pro 32 None Feb 10 S50 None XP Pro Pro 32 None Feb 10
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Pentium® Processor G6950 with dual-core, Intel 64, Virtualization Technology, integrated 1066MHz dual-channel DDR3 memory controller, 3MB cache or Intel Core™ i3 Processor i3-530 with dual-core, Intel 64, Hyper-Threading Technology, Virtualization Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or Intel Core i5 Processor i5-750 with quad-core, Intel 64, Virtualization Technology, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache	• 6.9" W X 17. • 175mm W X • 24.2 lb (11.0 • Handle on to • Power buttor • Toolless cove • Tilted front I/	442mm D X 414mm H kg) in max configuration pp front n on top handle er removal O for easy access c, optical drive removal
Implementation Memory	Processor in LGA1156 socket 1GB, 2GB, or 3GB std, 8GB max, UDIMM,	,	·
,	PC3-10600 1333MHz DDR3*, four 240-pin DIMM sockets; Italics: standard memory in two sockets; two sockets available; Non-italics: standard memory in one socket; three sockets available * System automatically clocks down for processors with 1066MHz DDR3 memory controller	Bay ② 5.25", Bay ③ 3.5", Bay ④ 3.5",	
Graphics	A1U/A2U/A3U: Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 512MB [1GB model],	Slot 2: half-len Slot 3: half-len	gth,full-height, PCle 2.0 x1 gth,full-height, 32-bit PCl 2.3 gth,full-height, 32-bit PCl 2.3
	1GB [2GB and 3GB models]), one analog VGA DB-15 connector, one DisplayPort ¹ supports dual independent display A4U: NVIDIA® GeForce® 310, PCI Express® 2.0 x16 adag one analog VGA DB-15 connector, one DisplayPort HDCP, DirectX 10, NVIDIA PureVideo®, NVIDIA CU ** DirectX 10 is only available with Windows Vista and later	oter, 512MB, connector,	Security Security chip (see information on left) One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Sourith electric for entired.
DP dongle	None		- Security slot (in rear for optional Kensington® MicroSaver® cable)
SATA disk SATA DVD SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 500GB, SATA 3.0Gb/s 7200 rpm Some: DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical None None None		 Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant
Front ports Rear ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, D		GREENGUARD® certified RoHS-compliant
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo USB 2.0 planar conn (1 used; one open for media reader or 2 re	reo, 3.5mm)	Supports ThinkVantage® technologies
Audio Speaker Ethernet Intel AMT Modem Security chip	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® None None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		Limited Warranty¹ ⇒ 3-year parts and labor ⇒ International Warranty Service³ ⇒ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm,
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno Optical Wheel Mouse (USB connector), black, Lenovo logo 280 watts with variable speed fan, autosensing, 85% PSU	vo® logo	Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations): ⁷
through downg Windows 7 Pro Professional 32 Preloaded applie Rescue and Re Client Security ThinkVantage F ThinkVantage F Norton™ Intern Microsoft® Offic Corel® Burn.No	Professional preinstalled rade rights in Genuine fessional (with Windows 7 to Recovery DVD) Stations (only some listed scovery TM to Solution TM Productivity Center System Update Power Manager et Security 2009 (30-day) the 2007 Trial (60-day) with (DVD±RW) Frofessional preinstalled 2GB PC3-10600 DDR3 UDIMM 2GB PC3-106	rive 41N5620 45J7915 57Y4393 57Y4397 sguide	3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x Type-model bay	Processor GHz Co	es Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Graphics		ENERGY STAR 5.0		Win7 preload	Global Educ	Avail date			
5474-D4U 4x4	Pentium G6950 2.80 2	2 2GB 2	250GB ² 250GB 500GB	None None None	DVD±RW DVD±RW DVD±RW		VGA, DP VGA, DP VGA, DP	ES50	None	Pro 32 Pro 32 Pro 32	None	Feb 10 Feb 10 Feb 10			
	The most powerful, stable These models have a 3-y			sktop wi	th next gene	eration Inte	l platform								
Positioning Processor	Ultimate security, stability Intel® Pentium® Process Intel 64, Virtualization Ted dual-channel DDR3 mem Intel Core™ i3 Processo Hyper-Threading Techno 1333MHz dual-channel Intel Core i5 Processor Intel 64, Virtualization Ted (up to 3.20 GHz at max the dual-channel DDR3 mem Processor in LGA1156 se	cor G6950 with chnology, integroup cory controller, or i3-530 with a ogy, Virtualiza DR3 memory i5-750 with que chnology, Turbo mode), in ory controller,	h dual-cograted 10 3MB candual-cordition Technocore controlled ad-core o Boost	ore, 066MHz che or e, Intel 6 nnology, er, 4MB o e, Technolo 1333MH	64, integrated cache or	6.9" W 2 175mm 24.2 lb Handle Power b Toolless Tilted fr Toolless	ss black cc X 17.4" D W X 442r (11.0 kg) i on top fro button on t s cover rer cont I/O for s disk, opti	X 16.3" Inm D X 4 n max cont cop handl moval casy accided a drive	H 114mm onfigura e cess	ation	optical ② ③ disk				
Memory	Non-italics: standard mer * System automatically cl DDR3 memory controller	PR3*, four 240 nory in two so nory in one so ocks down for	ckets; twocket; three	o socket ee socke	ts available; ets available	Bay ② 5. Bay ③ 3. Bay ④ 3. Slot 1: ha	25", 1.6" l 5", 1" hiç 5", 1" hiç	25", 1.6" high, access, std optical 25", 1.6" high, access, open (reader/disk 5", 1" high, access, open (reader/disk 5", 1" high, no access, std disk (f-length, full-height, PCle 2.0 x16 (75w max)							
Graphics	A5U/D4U: Intel HD Graph HDCP, Direct (up to 765MB) one analog Voone DisplayPo NVIDIA® GEF one analog Voor HDCP, Direct (up to 765MB) one Direct (up to 765MB) one Direct (up to 765MB) one analog Voor HDCP, Direct (up to 765MB) one analog Voo	(® 10, uses ma [2GB models] GA DB-15 con ort™ connecton orce® 310, PC GA DB-15 con	ain memon l, 1277M lnector, r, suppor CI Expresinector, o	B [3GB into the set of	ndependent 16 adapter, l ayPort conn	alf-length,f alf-length,f • Se • Oi	ull-height ull-height ecurity ch	t, 32-bi t, 32-bi Sec nip (see o secur	t PCI 2.3 it PCI 2.3 curity e informa e both c	ation on					
DP dongle	None	(10,11111111111111111111111111111111111	i dic vide	, , , , , , , ,	JIA OODA		entire system to fixed object: - Padlock loop (in rear for opt padlock)								
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader Chipset	250GB or 500GB, SATA Super Multi-Burner DL D' Serial ATA, SATA 3.0Gb/s three SATA connectors for None None None Intel Q57 Express Chip: Platform Controller Hub (/D±RW SATA i, integrated in r disk and opt set PCH) for PCI,	1.5Gb/s chipset, ical		SB,	Po Ha Bo Bo Se	Kensington® MicroSaver® cable) • Power-on password • Hard disk password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement								
Internal connector Audio Speaker	SMSC® SCH5147 Super Two USB 2.0, microphon Six USB 2.0, serial (9-pir Line-in (stereo, 3.5mm), I Two USB 2.0 planar conr High Definition (HD) Aud Internal speaker for busir	e (stereo, 3.5n), ethernet (R. ine-out (stereo (1 used; one o, Realtek® Al ess audio	J-45), mo o, 3.5mm open for LC662 co	onitor (Vo i), microp media r odec	ĠA DB-15, [ohone-in (ste eader or 2 re	DisplayPort ereo, 3.5mi	m) orts) • GR • Ro	ENV EAT™ GO ERGY S REENGU HS-comp	old ratii TAR® 5 ARD® o oliant	5.0-comp certified	liant	20			
Ethernet Intel AMT Modem Security chip	One gigabit ethernet port None None STMicroelectronics ST19 TCG 1.2-compliant						<i>⇒</i> 3		_imited	l Warran	ity¹				
Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable s	SB connector)	, black, L	enovo ĺc	go	vo® logo	⇒ (p	Customer parts only or select Mon - Fri	r Repla / (with ed part	ceable U limited o ts³, 8 am	Init (CR nsite so - 5 pm,	ervice			
Preloaded applie Rescue and Re Password Mana ThinkVantage S ThinkVantage T ThinkVantage T Norton™ Intern (30 days of viru Adobe® Reade Adobe Flash® F Skype™ for Wir Microsoft® Offic Corel® Burn.No	ows® 7 Professional 32 cations⁵ (only some listed ecovery™ ager System Update Power Manager Foolbox et Security 2009 us definitions) Player ndows se 2007 Trial (60-day)	Accessorie 1GB PC3-10 2GB PC3-10 500GB SAT 1TB SATA 3 Super Multi- DisplayPort NVIDIA GeF More access Acc Guide ir Other access	889 990 990 18 8520 15 993 997 • • • • • • • • • • • • • • • • • •	next busin Dnsite se in eligible 3-year I (ThinkP 3-year I (ThinkP 4-year I (ThinkP 4-year I (ThinkP	ness darvice ue locat LOR 9x LOR 9x LOR 2dus par LOR 9x lus par LOR 9x lus par LOR 2dus par	ay respo pgrade of ions):7 15, 4 hou art number 15, 4 hou t number 15, 4 hou t number 127, 4 hou t number 127, 4 hou t number 128, 4 hou t number 128, 4 hou t number 128, 4 hou t number 129, 4 hou t number 129, 4 hou t number 120, 4 hou t number 120, 4 hou t number 120, 4 hou t number 121, 4 hou t number 122, 4 hou t number 123, 4 hou t number 124, 5 hou 125, 6 hou 125, 6 hou 125, 6 hou 125, 7	nse tim options r respon er 41C919 41C919 8usines 41C919 41C919 41C919 ur respon 41C919 ur respon 41C919 eranty nce	nse 192) onse 33) s Day 14) nse 55) onse 66)							

	Type-model	Slot x bay			Max Turb GHz		Memory ⁸	SATA disk		Integrated graphics					Recovery DVD	Global Educ	Avail date
	3257-A1U	1x2	Core i5-650	3.20	3.46	2	3GB	500GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
><	3257-A2U	1x2	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

- Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0°
 These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

	These models have a 3-	year limited warranty¹						
* For more inform	ation on Lenovo Secure Ma	anaged Client, see lenovo.com/acc						
Positioning Processor	Ultimate security, stability, Intel® Core™ i5 Processon Intel 64, Hyper-Threading	and manageability for the enterprise or i5-650 or i5-660 with dual-core, Technology, Turbo Boost Technology, TXT, integrated 1333MHz dual-channel and 4MB cache	Eco Ultra Sn	optical disk optical disk 1.6" high, access, std optical				
Memory	3GB std, 4GB max, PC3- two 204-pin SODIMM soc	10600 1333MHz DDR3,	Baý ② 3.5", 1" high, no access, std disk Slot 1: Low Profile, 32-bit PCI 2.3					
Graphics DP dongle	uses main memory (up to one analog VGA DB-15 co supports dual independen	onnector, one DisplayPort™ connector,	Business black color; metal case 11.0" W X 9.4" D X 3.1" H 279mm W X 238mm D X 79mm H 9.2 lb (4.2 kg) in maximum configuration Hinged toolless cover for easy serviceability Toolless disk and optical drive removal System floor stand for vertical orientation					
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	500GB, SATA 3.0Gb/s 72/ Super Multi-Burner DL DV Serial ATA, SATA 3.0Gb/s, two SATA connectors for connectors for connectors None None	'D±RW SATA 1.5Gb/s Drive integrated in chipset,		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password				
Chipset	Intel Express Q57 Chips	PCH) for PCI, ethernet, and USB,		Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement				
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, ethernet (RJ Line-in (stereo, 3.5mm), li High Definition (HD) Audic Internal speaker for busine One gigabit ethernet port, Intel Active Management None STMicroelectronics ST191 TCG 1.2-compliant	Intel 82578DM, Wake on LAN® Technology 6.0 (Intel AMT 6.0) NP18 Trusted Platform Module (TPM),	ereo, 3.5mm)	Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant				
Keyboard Mouse Power supply	Optical Wheel Mouse (US	ard (USB connector), 104-key, black, Lenc B connector), black, Lenovo logo 130 watts, autosensing, 87% PSU	ovo® logo	Supports ThinkVantage® technologies				
through downg Windows 7 Pro Professional 3: Preloaded appli Rescue and Roclient Security ThinkVantage ThinkVantage ThinkVantage Lenovo Systen Norton™ Interr (30 days of viri Adobe® Reade Adobe Flash® Skype™ for Wi Microsoft® Offi Corel® Burn.No	Professional preinstalled grade rights in Genuine ofessional (with Windows 7 2 Recovery DVD) cations⁵ (only some listed) ecovery™ Solution™ Productivity Center System Update Power Manager In Toolbox Inter® Player Index I	Accessories 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Monitor accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	45J7915 57Y4393 41R4474 unt 40Y8625 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays next business day response time) Onsite service upgrade options (in eligible locations):⁻ 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance				

⇒ ThinkPlus services at lenovo.com/thinkplus/warranty
 ⇒ Post warranty maintenance

services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz		Memory ⁸	SATA disk	SATA optical	Integrated graphics		ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
3257-A5U	1x2	Core i5-650	3.20	3.46	2	3GB	500GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	None	Mar 10

- Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
 Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0*
 This small and medium business (SMB) model is part of the US TopSeller™ Program

- This model has a 3-vear limited warrantv

* For more infor	mation on Lenovo Secure Managed Client, see lenovo.com/acc
Positioning	Ultimate security, stability, and manageability for the enterprise

Intel® Core™ i5 Processor i5-650 with dual-core, Processor Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Implementation Processor in LGA1156 socket Memory 3GB std, 4GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook); Italics: standard memory in both sockets; no sockets available Graphics Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 1277MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display DP dongle SATA disk 500GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

Eco Ultra Small disk optical _ .. _ Bay 1 5.25", 1.6" high, access, std optic Bay 2 3.5", 1" high, no access, std disk std optical

Slot 1: Low Profile, 32-bit PCI 2.3

- · Business black color; metal case
- 11.0" W X 9.4" D X 3.1" H 279mm W X 238mm D X 79mm H
- 9.2 lb (4.2 kg) in maximum configuration
- Hinged toolless cover for easy serviceability
- Toolless disk and optical drive removal
- System floor stand for vertical orientation

cable)

Power-on password

Hard disk password

SATA DVD±RW SATA Controller eSATA port

Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical

None Diskette drive None Media reader None

Intel Express Q57 Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O

Front ports Rear ports Rear audio ports Audio

Chipset

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

High Definition (HD) Audio, Realtek® ALC662 codec Speaker Internal speaker for business audio Ethernet One gigabit ethernet port, Intel 82578DM, Wake on LAN® Intel AMT Intel Active Management Technology 6.0 (Intel AMT 6.0)

Modem Security chip STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant

Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), black, Lenovo logo Mouse

Power supply External AC/DC adapter, 130 watts, autosensing, 87% PSU

Accessories

500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm)

Super Multi-Burner DL DVD±RW SATA Drive 41N5620

DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II ThinkCentre Ultra Small Under Desk Mount

More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

Security

• Security chip (see information on left)

Security slot (in rear for attachment of optional Kensington® MicroSaver®

Boot sequence control Boot without keyboard and mouse

Individual USB port disablement

- **Environmental Features** EPEAT™ Gold rating
- ENERGY STAR® 5.0-compliant GREENGUARD® certified

- RoHS-compliant

43R1990

45J7918

45J7915

57Y4393

41R4474

40Y8625

Supports ThinkVantage® technologies

Limited Warranty¹

3-year parts and labor

(in eligible locations):7

- International Warranty Service⁹
 Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm,
- Mon Fri coverage excluding holidays, next business day response time) Onsite service upgrade options
- 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
- (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
- (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196) ThinkPlus services at
- lenovo.com/thinkplus/warranty Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Preloaded operating system²⁰

Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed) • Rescue and Recovery[™]

- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009
- (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)
- Corel® Burn.Now™ (DVD±RW
- Corel DVD MovieFactory® (DVD±RW)

Type-model	Slot x bay			Max Turb GHz		Memory	SATA / ⁸ disk		Integrated graphics					Recovery DVD	Global Educ	Avail date
3853-A1U	1x2	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
3853-A2U	1x2	Core i5-650	3.20	3.46	2	3GB	500GB	DVD ±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
3853-A3U	1x2	Core i5-660	3.33	3.60	2	3GB	500GB	DVD ±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

	 Next generation Intel platform with latest Intel vPro™ Technology Most manageable ThinkCentre ever: supports Lenovo Secure Mat These models have a 3-year limited warranty¹ 		
* For more inform	ation on Lenovo Secure Managed Client, see lenovo.com/acc		
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket	Eco Ultra Sm	optical disk
Memory	2GB or 3GB std, 4GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook); Italics: standard memory in both sockets; no sockets available; Non-italics: standard memory in one socket; one socket available	Bay ② 3.5", Slot 1: Low Pr • Business bla	1" high, no access, std disk rofile, 32-bit PCI 2.3 ack color; metal case
Graphics DP dongle	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later None	279mm W X9.2 lb (4.2 k)Hinged toollToolless disl	.4" D X 3.1" H (238mm D X 79mm H g) in maximum configuration ess cover for easy serviceability k and optical drive removal r stand for vertical orientation
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 500GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical None None None		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password
Chipset	Intel Q57 Express Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Boot sequence control Boot without keyboard and mouse Individual USB port disablement
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (ste High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® Intel Active Management Technology 6.0 (iAMT 6.0) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	,	Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno Optical Wheel Mouse (USB connector), black, Lenovo logo External AC/DC adapter, 130 watts, autosensing, 87% PSU	ovo® logo	Supports ThinkVantage® technologies Limited Warranty¹
Preloaded oper: - Windows® XP through downg Windows 7 Pre Professional 3. Preloaded appli • Rescue and R • Client Security • ThinkVantage • ThinkVantage • ThinkVantage • Lenovo Syster • Norton™ Interr (30 days of vir • Adobe® Reade • Adobe Flash® • Skype™ for Wi • Microsoft® Offi • Corel® Burn.Ne	Accessories Professional preinstalled trade rights in Genuine offessional (with Windows 7 2 Recovery DVD) Cations⁵ (only some listed ecovery™ Solution™ Solution™ Productivity Center System Update Power Manager in Toolbox let Security 2009 us definitions) r® Player ndows ce 2007 Trial (60-day) owr™ (DVD±RW) Accessories SOGGB SATA 3.0Gb/s Disk (7200 rpm) 1T	45J7915 57Y4393 41R4474 unt 40Y8625 esguide	 3-year parts and labor □ International Warranty Service³ □ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) □ Onsite service upgrade options (in eligible locations):7 • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) □ ThinkPlus services at lenovo.com/thinkplus/warranty □ Post warranty maintenance services available □ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz		Memory ⁸	SATA disk	SATA optical	Integrated graphics		ENERGY STAR 5.0		Win7 preload	Global Educ	Avail date
3853-A4U 3853-B5U 3853-E3U 3853-E4U 3853-E5U	1x2 1x2 1x2 1x2 1x2	Core i5-650 Core i5-660 Core i5-650 Core i5-660 Core i5-660	3.20 3.33 3.20 3.33 3.33	3.46 3.60 3.46 3.60 3.60	2 2 2 2 2	2GB 2GB <i>3GB</i> 3GB 2GB	250GB ² 250GB 500GB 500GB 250GB	DVD±RW DVD±RW DVD±RW DVD±RW DVD±RW	Intel HD Intel HD Intel HD Intel HD Intel HD	VGA, DP VGA, DP VGA, DP VGA, DP VGA, DP	ES50 ES50 ES50	vPro vPro vPro vPro vPro	Pro 32 Pro 32 Pro 32 Pro 32 Pro 32	None None None	Feb 10 Feb 10 Feb 10 Feb 10 Feb 10

- Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0°
- These models have a 3-year limited warranty

* For more information on Lenovo Secure Managed Client, see lenovo	vo.com/acc
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Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket	Eco Ultra Sm	optical disk 1.6" high, access, std optical
Memory	2GB or 3GB std, 4GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook); Italics: standard memory in both sockets; no sockets available; Non-italics: standard memory in one socket; one socket available	Bay ② 3.5", Slot 1: Low Pr	1" high, no access, std disk rofile, 32-bit PCI 2.3 ack color; metal case
Graphics DP dongle	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB [2GB models], 1277MB [3GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display None	(238mm D X 79mm H g) in maximum configuration ess cover for easy serviceability k and optical drive removal r stand for vertical orientation	
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 500GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical None None None		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password
Chipset	Intel Q57 Express Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Boot sequence control Boot without keyboard and mouse Individual USB port disablement
Front ports Rear ports Rear audio ports Audio	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, Definition (HD) Audio, Realtek® ALC662 codec	,	
Speaker Ethernet Intel AMT Modem Security chip	Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® Intel Active Management Technology 6.0 (Intel AMT 6.0) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), black, Lenovo logo	vo® logo	Supports ThinkVantage® technologies
Power supply	External AC/DC adapter, 130 watts, autosensing, 87% PSU		Limited Warranty ¹

Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™ Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Accessories

500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 TTB SATA 3.06b/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II 45J7915 57Y4393 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period¹ via 800-426-7378

Type-model	Slot 2 bay	Processor	Base GHz	Max Turk GHz		Memory	SATA ⁸ disk	SATA optical	Integrated graphics	Monitor conn	ENERGY STAR 5.0	Intel vPro	Win7 preload	Global (G) GMP (P)	Avail date
5296-A1U	1x2	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD+RW	Intel HD	VGA. DP	FS50	vPro	Pro 32	GP	Feb 10

- Next generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0°
- This model is part of the Global Models Plus (GMP) program with limited onsite service3 3-year limited warranty

* For more information on Lenovo Secure Managed Client, see lenovo.com/acc

For more imorni	ation on Lenovo Secure Managed Chem, see lenovo.com/acc		
Positioning Processor Implementation Memory Graphics	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket 2GB std, 4GB max, PC3-10600 1333MHz DDR3, two 204-pin SODIMM sockets (notebook); Non-italics: standard memory in one socket; one socket available Intel HD Graphics in processor, HDCP, DirectX® 10, was a processor of the pro	Bay ② 3.5", Slot 1: Low P • Business bl • 11.0" W X 9	n, 1.6" high, access, std optical 1" high, no access, std disk Profile, 32-bit PCI 2.3 lack color; metal case 9.4" D X 3.1" H
DP dongle	uses main memory (up to 765MB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display None 250GB, SATA 3.0Gb/s 7200 rpm	9.2 lb (4.2 kHinged toolToolless dis	X 238mm D X 79mm H rg) in maximum configuration lless cover for easy serviceability sk and optical drive removal or stand for vertical orientation
SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical None None None		Security • Security chip (see information on left) • Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
Chipset	Intel Q57 Express Chipset, Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Power-on password Hard disk password Boot sequence control
Front ports Rear ports Rear audio ports Audio Speaker Ethernet Intel AMT Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Six USB 2.0, ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (st High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® Intel Active Management Technology 6.0 (Intel AMT 6.0) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant	,	Boot without keyboard and mouse Individual USB port disablement
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenc Optical Wheel Mouse (USB connector), black, Lenovo logo External AC/DC adapter, 130 watts, autosensing, 87% PSU	ovo® logo	
Preloaded opera	ating system ²⁰ Accessories	42P1000	Environmental Features

Genuine Windows® 7 Professional 32

Preloaded applications⁵ (only some listed) • Rescue and Recovery™

- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009 (30 days of virus definitions)
- Àdobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

500GB SATA 3.0Gb/s Disk(7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable Lenovo Vertical PC and Monitor Stand II 45J7915 57Y4393 41R4474 ThinkCentre Ultra Small Under Desk Mount 40Y8625

Acc Guide in pdf lenovo.com/accessoriesguide

More accessories on O-M90 sheet

Other accessories at lenovo.com/accessories

- EPEAT™ Gold rating
- ENERGY STAR® 5.0-compliant GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage® technologies

- 3-year parts and labor
- International Warranty Service⁹
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at
- lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

	Type-model	Slot x bay	Processor		Max Turbo GHz		Memory ⁸	SATA disk		Integrated graphics					Recovery DVD		Avail date
	3269-A1U	2x3	Core i5-650	3.20	3.46	2			DVD±RW								
><	3269-A2U	2x3	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

* For more information	ation on Lenovo Secure Managed Client, see lenovo.com/acc						
Positioning Processor Implementation	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket		optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk				
Memory	3GB std , 8GB max, UDIMM , PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available;	Bay ③ 3.5", Slot 1: Low Pr	.5" high, access, open (reader) ofile, PCI Express 2.0 x16 (75w max) ofile, 32-bit PCI 2.3				
Graphics DP dongle	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later None	• 12.5" W X 1 • 317mm W X • 16.5 lb (7.5 • Toolless cov	ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal				
SATA disk SATA DVD±RW SATA Controller	500GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset,	Toolless adaToolless sys	apter retention stem board retention r stand for vertical orientation				
eSATA port Diskette drive Media reader	two SATA connectors for disk and optical None None None		Security • Security chip (see information on left) • Security slot (in rear for attachment of				
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		optional Kensington® MicroSaver® cable) • Power-on password • Hard disk password				
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (storeo, USB 2.0 planar conn (1 used; one open for media reader or 2 line (1 planar conn (1 planar conn (1 used; one open for media reader or 2 linternal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN®	DisplayPort) tereo, 3.5mm)	Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement				
Intel AMT Modem	Intel Active Management Technology 6.0 (Intel AMT 6.0) None		Environmental Features				
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		• EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified				
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Len Optical Wheel Mouse (USB connector), black, Lenovo logo	Ü	RoHS-compliant Supports ThinkVantage® technologies				
Power supply	240 watts with 85% efficiency, auto-sensing, active Power Factor C	orrection	- Supports Hillikvantage technologies				

Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
 Client Security Solution™
- ThinkVantage Productivity Center
- ThinkVantage System Update ThinkVantage Power Manager
- Lenovo System Toolbox Norton™ Internet Security 2009
- (30 days of virus definitions)
- Adobe® Reader® Adobe Flash® Player Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day) Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW) Corel WinDVD® (DVD±RW)

Accessories

1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk(7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable 57Y4393 NVIDIA® GeForce® 512MB 310 (DP, VGA) 57Y4397 NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)

- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Type-model	Slot x bay	Processor	Base I GHz	Max Turbo GHz		Memory ⁸	SATA disk	SATA optical	Integrated graphics		ENERGY STAR 5.0	Intel vPro	Win7 preload	Global Educ	Avail date
		Core i5-650 Core i5-650		3.46 3.46	2	3GB 4GB			Intel HD Intel HD	VGA, DF VGA, DF		vPro vPro	Pro 32 Pro 64		Mar 10 Mar 10

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0
- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

* For more information on	Lenovo Secure Man	naged Client, see	lenovo.com/acc

Positioning Processor Diltimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket Memory 3GB or 4GB std, 8GB max, UDIMM, PC3-10600 1333MHz DDR3, four 240-pin DIMM sockets; Italics: standard memory in two sockets; two sockets available Small Optical dis O	ear)
four 240-pin DIMM sockets; Slot 1: Low Profile, PCI Express 2.0 x16 (75)	<
Slot 2: Low Profile, 32-bit PCI 2.3	,
Graphics Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 1277MB[3GB models], 1759MB[4GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display None ■ Business black color; metal case ■ 12.5" W X 14.0" D X 3.9" H ■ 317mm W X 355mm D X 99mm H ■ 16.5 lb (7.5 kg) in maximum configuration ■ Toolless cover flips up and tilts backward of Toolless disk, optical drive removal	
SATA disk SATA DVD±RW SATA Controller SATA Models SATA SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, • Toolless adapter retention • Toolless system board retention • System floor stand for vertical orientation	
two SATA connectors for disk and optical eSATA port Diskette drive Media reader None two SATA connectors for disk and optical None Security Security Security Security chip (see informa Security slot (in rear for at	ttachment of
Chipset Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O poptional Kensington® Microcable) Power-on password Hard disk password	oSaver®
Front ports Rear ports Six USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Rear audio ports Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) Audio Speaker Internal speaker for business audio Ethernet Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) Individual USB port disables Individual USB port	
Intel AMT Intel Active Management Technology 6.0 (Intel AMT 6.0) Environmental Fe	atures
Modem Security chip STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo • EPEAT™ Gold rating • ENERGY STAR® 5.0-comp • GREENGUARD® certified • RoHS-compliant	oliant
Mouse Optical Wheel Mouse (USB connector), black, Lenovo logo Power supply 240 watts with 85% efficiency, auto-sensing, active Power Factor Correction Supports ThinkVantage® tecl	hnologies

- Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64
- Preloaded applications⁵ (all OSes; only
- some listed)
- Rescue and Recovery[™] Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009 (30 days of virus definitions)
- Adobe® Reader® Adobe Flash® Player Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day) Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Accessories

1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable
NVIDIA® GeForce® 512MB 310 (DP, VGA) 57Y4393 57Y4397 NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service⁹
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- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
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 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Type-model	Slot x bay	Processor		/lax Turb GHz		Memory	SATA 8 disk		Integrated graphics					Recovery DVD	Global Educ	Avail date
5536-A1U	2x3	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
5536-A2U	2x3	Core i5-650	3.20	3.46	2	3GB	500GB	DVD ±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
5536-A3U	2x3	Core i5-660	3.33	3.60	2	3GB	500GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10
5536-E1U	2x3	Core i5-660	3.33	3.60	2	2GB	250GB	DVD±RW	Intel HD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None	Feb 10

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0°
- These models have a 3-year limited warranty

	ting system ²⁰ Accessories	1000011	Limited Warranty ¹
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenov Optical Wheel Mouse (USB connector), black, Lenovo logo 240 watts with 85% efficiency, auto-sensing, active Power Factor Cor	· ·	Supports ThinkVantage® technologies
Ethernet Intel AMT Modem Security chip	One gigabit ethernet port, Intel 82578DM, Wake on LAN® Intel Active Management Technology 6.0 (Intel AMT 6.0) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant
Internal connector Audio Speaker	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, D Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (ster Two USB 2.0 planar conn (1 used; one open for media reader or 2 re. High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	isplayPort) reo, 3.5mm)	Boot without keyboard and mouse Serial port I/O control Individual USB port disablement
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC* SCH5147 Super I/O		Power-on passwordHard disk passwordBoot sequence control
eSATA port Diskette drive Media reader	two SATA connectors for disk and optical None None None		Security Security Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
SATA disk SATA DVD±RW SATA Controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset,	System floor	tem board retention r stand for vertical orientation Security
Graphics DP dongle	Intel HD Graphics in processor, HDCP, DirectX® 10**, uses main memory (up to 1GB), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display ** DirectX 10 is only available with Windows Vista and later None	 12.5" W X 1 317mm W X 16.5 lb (7.5) Toolless cov Toolless disk Toolless ada 	4.0" D X 3.9" H 355mm D X 99mm H kg) in maximum configuration er flips up and tilts backward on rear hinge k, optical drive removal upter retention
Memory	2GB or 3GB std, 8GB max, UDIMM , PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; two sockets available; <i>Italics:</i> standard memory in one socket; three sockets available.	Bay 3 3.5", Slot 1: Low Pr Slot 2: Low Pr	.5" high, access, open (reader) ofile, PCI Express 2.0 x16 (75w max) ofile, 32-bit PCI 2.3 ack color; metal case
Positioning Processor Implementation	Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache	Small Bay ① 5.25", Bay ② 3.5".	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk

Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional (with Windows 7 Professional 32 Recovery DVD)

Preloaded applications⁵ (only some listed)

- Rescue and Recovery
- Client Security Solution™
 ThinkVantage Productivity Center
 ThinkVantage System Update
- ThinkVantage Power Manager
- Lenovo System Toolbox Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader® Adobe Flash® Player Skype™ for Windows

- Skype: in Wildows Microsoft® Office 2007 Trial (60-day) Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
- Corel WinDVD® (DVD±ŘW)

Accessories

1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 57Y4390 500GB SATA 3.0Gb/s Disk(7200 rpm) 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable
NVIDIA® GeForce® 512MB 310 (DP, VGA) 57Y4393 57Y4397 NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 41C9196)
- ThinkPlus services at lenovo.com/thinkplus/warranty

via 800-426-7378

- Post warranty maintenance services available
- 24 hour x 7 day14 toll-free support during the warranty period

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz		Memory ⁸	SATA disk	SATA optical	Integrated graphics		ENERGY STAR 5.0		Win7 preload	Global Educ	Avail date
5536-A4U 5536-B8U		Core i5-650 Core i5-650		3.46 3.46	2	2GB 3GB	250GB ² 500GB	DVD±RW DVD±RW	Intel HD Intel HD	VGA, DP VGA, DP			Pro 32 Pro 32		
5536-B9U	2x3	Core i5-660 Core i5-660	3.33	3.60 3.60	2	<i>3GB</i> 2GB	500GB 250GB	DVD±RW DVD±RW	Intel HD Intel HD	VGA, DP VGA, DP	ES50	vPro	Pro 32 Pro 32	None	Feb 10

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0*

	These models have a 3-year limited warranty	3.7.2.2.2.	
* For more information	ation on Lenovo Secure Managed Client, see lenovo.com/acc		
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket	Small Bay ① 5.25", Bay ② 3.5"	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk
Memory	2GB or 3GB std, 8GB max, UDIMM , PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Italics:</i> standard memory in two sockets; two sockets available; <i>Non-italics:</i> standard memory in one socket; three sockets available	Bay 3 3.5", Slot 1: Low Pr Slot 2: Low Pr	.5" high, access, open (reader) ofile, PCI Express 2.0 x16 (75w max) ofile, 32-bit PCI 2.3 ack color; metal case
Graphics DP dongle	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB [2GB models], 1277MB [3GB models]), one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display None	• 12.5" W X 1 • 317mm W X • 16.5 lb (7.5 • Toolless cov • Toolless disl • Toolless ada	4.0" D X 3.9" H C 355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal apter retention
SATA disk SATA DVD±RW SATA Controller eSATA port	250GB or 500GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, two SATA connectors for disk and optical None		tem board retention r stand for vertical orientation Security • Security chip (see information on left)
Diskette drive Media reader	None None		Security slot (in rear for attachment of optional Kensington® MicroSaver®
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		cable) • Power-on password • Hard disk password • Boot sequence control
Front ports Rear ports Rear audio ports Internal connector Audio Speaker	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5 Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, I Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo USB 2.0 planar conn (1 used; one open for media reader or 2 religional perinition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	DisplayPort) ereo, 3.5mm)	Boot without keyboard and mouse Serial port I/O control Individual USB port disablement
Ethernet Intel AMT Modem Security chip	One gigabit ethernet port, Intel 82578DM, Wake on LAN® Intel Active Management Technology 6.0 (Intel AMT 6.0) None STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant		Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenco Optical Wheel Mouse (USB connector), black, Lencov logo 240 watts with 85% efficiency, auto-sensing, active Power Factor Co	Ü	Supports ThinkVantage® technologies
Preloaded opera	,, ₀ ,	57Y4389	Limited Warranty ¹ 3-year parts and labor International Warranty Service ⁹

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager
- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day) Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

2GB PC3-10600 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 57Y4390 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGA Monitor Cable NVIDIA® GeForce® 512MB 310 (DP, VGA) 57Y4393 57Y4397 NVIDIA Quadro® 512MB FX380 LP (DP, DVI) 57Y4396 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response
- (ThinkPlus part number 41C9196) ThinkPlus services at
- lenovo.com/thinkplus/warrantv Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Type-model	Slot x bay	Processor	Base GHz	Max Turbo GHz		Memory ⁸	SATA disk	SATA optical	Integrated graphics		ENERGY STAR 5.0	Intel vPro		Global (G GMP (P)	
5864-A1U	2x3	Core i5-650	3.20	3.46	2	2GB	250GB ²	DVD±RW	Intel HD	VGA, DP	ES50	vPro	Pro 32	GΡ	Feb 10

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
 Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0*
 This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

* For more information	•	naged Client, see lenovo.com/acc		, ,
Positioning Processor	Ultimate security, stability, Intel® Core™ i5 Processon Intel 64, Hyper-Threading	and manageability for the enterprise or i5-650 with dual-core, Technology, Turbo Boost Technology, TXT, integrated 1333MHz dual-channel and 4MB cache		optical disk (in rear) 1.6" high, access, std optical
Memory	2GB std, 8GB max, UDIM four 240-pin DIMM sockets	IM, PC3-10600 1333MHz DDR3,	Bay ③ 3.5", Slot 1: Low Pr	1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express 2.0 x16 (75w max) rofile, 32-bit PCI 2.3
Graphics DP dongle SATA disk	Intel HD Graphics in produses main memory (up to one analog VGA DB-15 co supports dual independen None	ressor, HDCP, DirectX® 10, 765MB), onnector, one DisplayPort™ connector, t display	 Business bla 12.5" W X 1 317mm W X 16.5 lb (7.5 Toolless cov 	onle, 32-bit 1 of 2.3 ack color; metal case 4.0" D X 3.9" H (355mm D X 99mm H kg) in maximum configuration ver flips up and tilts backward on rear hinges k, optical drive removal
SATA DVD±RW SATA Controller eSATA port	250GB, SATA 3.0Gb/s 720 Super Multi-Burner DL DV Serial ATA, SATA 3.0Gb/s, two SATA connectors for d None	D±RW SATA 1.5Gb/s Drive integrated in chipset,	Toolless adaToolless sys	apter retention stem board retention r stand for vertical orientation
Diskette drive Media reader	None None			Security Security chip (see information on left)
Chipset	Intel Q57 Express Chips Platform Controller Hub (F SMSC® SCH5147 Super I	PCH) for PCI, ethernet, and USB,		Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Power-on password
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT Modem Security chip	Six USB 2.0, serial (9-pin) Line-in (stereo, 3.5mm), lir Two USB 2.0 planar conn High Definition (HD) Audic Internal speaker for busine One gigabit ethernet port, Intel Active Management		DisplayPort) ereo, 3.5mm)	Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement
Keyboard Mouse Power supply	Optical Wheel Mouse (US	ard (USB connector), 104-key, black, Lenc B connector), black, Lenovo logo ncy, auto-sensing, active Power Factor Co	Ü	Environmental Features • EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant
	ows® 7 Professional 32	Accessories 1GB PC3-10600 DDR3 UDIMM 2GB PC3-10600 DDR3 UDIMM	57Y4389 57Y4390	GREENGUARD® certified RoHS-compliant
Rescue and Re Password Man. ThinkVantage S ThinkVantage I ThinkVantage I Norton™ Intern (30 days of virule Adobe® Reade Adobe Flash® F Skype™ for Wirule Microsoft® Office Corel® Burn.No	ager System Update Power Manager Foolbox et Security 2009 us definitions) Player ndows 22 2007 Trial (60-day)	500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA D DisplayPort to Single-link DVI-D Cable DisplayPort to VGA Monitor Cable NVIDIA® GeForce® 512MB 310 (DP, VGA NVIDIA Quadro® 512MB FX380 LP (DP, More accessories on O-M90 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	43R1990 45J7918 Orive 41N5620 45J7915 57Y4393 A) 57Y4397 DVI) 57Y4396	Supports ThinkVantage® technologies Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):² 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹

Slot x	Base Max Turbo		SATA Integ	grated Monitor	
Type-model bay 3282-A1U 4x4 (Processor GHz GHz Core i5-650 3.20 3.46	Cores Memory® disk Bay 2 3GB 500GB² None	optical grai		STAR 5.0 vPro Preload DVD Educ date ES50 vPro XP Pro Pro 32 None Feb 10
	Core i5-660 3.33 3.60		DVD±RW Inte	eIHD VGA, DP	ES50 vPro XP Pro Pro 32 None Feb 10
	Most manageable Think	Centre ever: supports Lenov m business (SMB) models al	vo Secure Ma	naged Client ve	ersion 2.0*
* For more inform	ation on Lenovo Secure Ma	anaged Client, see lenovo.co	om/acc	_	
Positioning Processor	Intel® Core™ i5 Processontel 64, Hyper-Threading Virtualization Technology, DDR3 memory controller,		-core, chnology,	• 6.9" W X 17 • 175mm W X	ack color; metal case 7.4" D X 16.3" H 442mm D X 414mm H 0 kg) in max configuration
Implementation Memory	four 240-pin DIMM socket	MM, PC3-10600 1333MHz DI s;		Toolless cov	op front on on top handle ver removal
Graphics	Intel HD Graphics in production	nory in two sockets; two sock	 Toolless dis 	I/O for easy access k, optical drive removal	
·	HDCP, DirectX® 10*, uses main memory (up to one analog VGA DB-15 cc supports dual independen * DirectX 10 is only available.	1GB), onnector, one DisplayPort™ c		Bay ① 5.25", Bay ② 5.25", Bay ③ 3.5",	apter retention 1.6" high, access, std optical 1.6" high, access, open 1" high, access, open (reader/diskette) 1" high, no access, std disk
DP dongle	None	00 4000			ngth, full-height, PCIe 2.0 x16 (75w max) ngth, full-height, PCIe 2.0 x1
SATA disk SATA DVD±RW SATA Controller	500GB, SATA 3.0Gb/s 720 Super Multi-Burner DL DV Serial ATA, SATA 3.0Gb/s, three SATA connectors for	D±RW SATA 1.5Gb/s Drive, integrated in chipset,		Slot 3: half-le	ngth, full-height, 32-bit PCI 2.3 ngth, full-height, 32-bit PCI 2.3
eSATA port Diskette drive Media reader	None None	·			Security Security chip (see information on left) One lock to secure both cover and
Chipset	Intel Q57 Express Chips Platform Controller Hub (F SMSC® SCH5147 Super I	PCH) for PCI, ethernet, and l	JSB,		entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional
Front ports Rear ports Rear audio ports Internal connecto Audio Speaker Ethernet Intel AMT Modem	Six USB 2.0, serial (9-pin) Line-in (stereo, 3.5mm), lir r Two USB 2.0 planar conn High Definition (HD) Audid Internal speaker for busine One gigabit ethernet port,	e (stereo, 3.5mm), headphon I), ethernet (RJ-45), monitor (I) ne-out (stereo, 3.5mm), micr (1 used; one open for media I), Realtek® ALC662 codec ess audio Intel 82578DM, Wake on LA Technology 6.0 (Intel AMT 6.	VĜA DB-15, I ophone-in (sto reader or 2 ro	DisplayPort) ereo, 3.5mm)	Kensington® MicroSaver® cable) Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement
Security chip	STMicroelectronics ST19NTCG 1.2-compliant	NP18 Trusted Platform Modu	le (TPM),		Environmental Features
Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US	ard (USB connector), 104-ke B connector), black, Lenovo eed fan, autosensing, 85% F	logo	ovo® logo	• EPEAT™ Gold rating • ENERGY STAR® 5.0-compliant • GREENGUARD® certified • RoHS-compliant
Preloaded opera	ating system ²⁰	Accessories			Supports ThinkVantage® technologies
- Windows® XP through downg Windows 7 Propressional 3. Preloaded appli Rescue and Resc	Professional preinstalled grade rights in Genuine ofessional (with Windows 7 2 Recovery DVD) cations⁵ (only some listed) ecovery™ 'Solution™ Productivity Center System Update Power Manager in Toolbox in the Security 2009 us definitions) er® Player indows ce 2007 Trial (60-day) ow™ (DVD±RW) vieFactory® (DVD±RW)	1GB PC3-10600 DDR3 UD 2GB PC3-10600 DDR3 UD 500GB SATA 3.0Gb/s Disk (72 Supper Multi-Burner DL DVF	IMM (7200 rpm) 200 rpm) 201 rpm) D±RW SATA D VI-D Cable Cable 310 (DP, VGA 0 sheet Dm/accessorie	45J7915 57Y4393 A) 57Y4397 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):² 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 41C9192) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9193) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 41C9194) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196) ThinkPlus part number 41C9196) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

nkCentre® M90p Tower (3282) - TopSeller (Windows 7)									Per	sonal S	Systems R	eference	(PSREF		
Slot x Type-model bay	Processor	Base M GHz	lax Turbo GHz		Memory		2nd Disl Bay	SATA optical	Integrated graphics		ENERGY STAR 5.0		Win7 preload	Global Educ	Avai date
3282-A8U 4x4 3282-B1U 4x4	Core i5-650 Core i5-650		3.46 3.46	2	3GB 4GB	500GB 320GB	None None	DVD±RW DVD±RW	Intel HD Intel HD	VGA, DI VGA, DI	P ES50 P ES50		Pro 32 Pro 64	None None	Mar 10 Mar 10
	Next GenMost maiThese snThese mo	nageabl nall and	e ThinkC medium	Centre busi	e ever: s iness (Si	upports MB) mod	Lenovo S	Secure Ma	naged Clie	nt versio	n 2.0*	nt Tech	nology		
* For more inform															
Positioning Processor Implementation	Ultimate se Intel® Core Intel 64, Hy Virtualization DDR3 mem Processor i	™ i5 Pro per-Thro on Techr nory con	ocessor eading T nology, T itroller, a	i 5-65 echnox XT, in and 4N	50 with c ology, Tu ntegrated	dual-cor irbo Boo d 1333M	'e , ost Techn	ology,	Tower Busines 6.9" W 2 175mm 24.2 lb Handle	X 17.4" [W X 442 (11.0 kg)	X 16.3" 2mm D X in max c	H 414mr	n H	optical ② ③ disk	
Memory	3GB or 4GI four 240-pir Italics:	n DIMM standar	sockets d memo	ry in	two soc			dz DDR3, available	Power bToollessTilted frToolless	outton on s cover re ont I/O fo	top hand emoval or easy ac	cess	val		
Graphics DP dongle	Intel HD Go HDCP, Dire (up to 1277 one analog supports do None	ctX® 10, MB <i>[3GL</i> VGA DI	, uses m B <i>model</i> : B-15 cor	ain m s], 17 nnecto	nemory 59MB <i>[4</i> or, one [nector,	• Toolless Bay ① 5. Bay ② 5. Bay ③ 3. Bay ④ 3.	25", 1.6' 25", 1.6' 5", 1" h	high, acc high, acc igh, acc	cess, cess, cess,	std opt open open (s, std dis	reader/d	diskette)
SATA disk SATA DVD±RW SATA Controller eSATA port	320GB or 5 Super Multi Serial ATA, three SATA None	-Burner SATA 3.	DL DVE .0Gb/s, i	D±RW integr	/ SATA 1 ated in a	.5Gb/s I chipset,	Orive		Slot 1: ha Slot 2: ha Slot 3: ha Slot 4: ha	ulf-length ulf-length ulf-length	, full-heigh , full-heigh , full-heigh	nt, PCI nt, PCI nt, 32-k	e 2.0 x16 e 2.0 x1 oit PCI 2.	6 (75w m 3	nax)
Diskette drive Media reader	None None										Security c		curity ee inform	ation on	ı left)
Chipset	Intel Q57 E Platform Co SMSC® SCI	ntroller	Hub (PO	CH) fo	or PCI, e	thernet,	and USE	3,		-	One lock tentire system Padlock Security	tem to loop (i	fixed obj in rear fo	ect: r opt pad	dlock)
Front ports Rear ports Rear audio ports Internal connecto Audio Speaker Ethernet Intel AMT	Two USB 2 Six USB 2.0 Line-in (ste or Two USB 2 High Definit Internal spe One gigabit Intel Active	D, serial reo, 3.5, 0 plana tion (HD eaker for etherne	(9-pin), mm), lind r conn (r) Audio, r busines et port, I	ether e-out 1 use Real ss aud ntel 8	net (RJ- (stereo, d; one o tek® AL0 dio 2578DN	45), mo 3.5mm) pen for 1 2662 co 1, Wake	nitor (VĠ , microph media rea dec on LAN®	A DB-15, none-in (stader or 2 r	DisṗlayPort ereo, 3.5mi	t) m) orts)		ton® M passw passw ence c out key t I/O co	licroSave vord vord control vboard ar ontrol	er® cable	e) se
Modem Security chip	None STMicroele TCG 1.2-cd	mpliant							ove® loge		PEAT™ C	old ra	5.0-com	pliant	
Keyboard Mouse Power supply	Preferred P Optical Who 280 watts w	eel Mou	se (USB	3 conr	nector), l	olack, Le	enovo log	0	ovos logo	• F	REENGL OHS-com	pliant			ioo
- Some: Genuii	ne Windows® sional 32 ne Windows 7 sional 64 ications 5 (all ecovery 1 Mager System Upda Power Manar Toolbox net Security 2 us definitions er 1 Player indows ce 2007 Trial ow 1 Mindows 1 (DVD±F	7 OSes; of the control of the contro	only	1GB I 2GB I 500G 1TB S Supel Displa Displa NVID More Acc G	PC3-100 B SATA SATA 3.0 r Multi-B ayPort to ayPort to IA® GeF accesso Guide in	3.0Gb/s 3.0Gb/s 0Gb/s Di 0Gb/s	link DVI- lonitor Ca 12MB 310 O-M90 s	M 00 rpm) rpm) RW SATA D Cable able O (DP, VGA	esguide	390	3-year pa Internation Custome parts oni for select Mon - Fri next bus Onsite so (in eligib • 3-year (Thinkf • 4-year (Thinkf • 4-year (Thinkf • 4-year (Thinkf • 4-year	arts an conal Wer Reply (with ted partice) in cover in esservice le loca LOR 2 Plus partice LOR 2 Plus partice le loca LOR 2 Plus partice partice le loca LOR 2 Plus partice partice partice partice le loca l	arranty saceable in limited triss, 8 and age excl day responsor in limited triss, 8 and age excl day responsor in limited triss, 4 hour numbe lay, 4, 4 hour	Service ⁹ Unit (CR onsite s n - 5 pm, uding hoonse tim options ur responder 41C919 Businese r 41C919 ur responder 41C919 r 41C919 ur responder 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919 r 41C919	RU) service solidays, ne) soli

Slot x Type-model bay	Processor GHz GHz	Cores Memory ⁸ disk	2nd Disk Bay	optical	grap	hics		STAR 5.	0 vPro	Preload	DVD	y Global Educ	Avail date		
5498-A1U 4x4 (5498-A2U 4x4 (5498-A3U 4x4 (2 2GB 250GB 2 3GB 500GB 2 3GB 500GB	None D	DVD±RW	Inte	IHD	VGA, DP	ES50	vPro	XP Pro	Pro 32	None			
	 Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0* These models have a 3-year limited warranty¹ 														
* For more information	ation on Lenovo Secure M	anaged Client, see I	enovo.co	om/acc											
Positioning Processor Implementation	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 or i5-660 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Tower • Business b • 6.9" W X 1 • 175mm W								olack color; metal case 7.4" D X 16.3" H X 442mm D X 414mm H .0 kg) in max configuration						
Memory	2GB or 3GB std, 8GB m four 240-pin DIMM socke Italics: standard mer Non-italics: standard mer	ts; nory in two sockets;	two sock	ets availa	able;	PoToTilTo	ower butto olless cov ted front I olless dis	n on top er remo /O for eak, optica	hand oval asy ac al drive	cess remova	ıl	□••□			
Graphics DP dongle	Intel HD Graphics in pro uses main memory (up to one analog VGA DB-15 c supports dual independer ** DirectX 10 is only availa None	o 1GB), onnector, one Displa nt display	ayPort™ c	connector	,	Bay Bay Bay Bay	① 5.25", ② 5.25", ② 5.25", ③ 3.5", ④ 3.5",	1.6" hig 1.6" hig 1" high 1" high	jh, acc jh, acc , acc , no	ess, ess, ess, access,	std disk	eader/d	,		
SATA disk SATA DVD±RW SATA Controller	250GB or 500GB, SATA Super Multi-Burner DL D'Serial ATA, SATA 3.0Gb/s three SATA connectors for	/D±RW SATA 1.5Gb , integrated in chips				Slot	1: half-lei 2: half-lei 3: half-lei 4: half-lei	ngth,full nath.full	-heigh -heigh	t, PCle : t. 32-bit	2.0 x1 PCI 2.3	3	ax)		
eSATA port Diskette drive Media reader	None None None									Secunip (see	informa				
Chipset	Intel Q57 Express Chips Platform Controller Hub (SMSC® SCH5147 Super	PCH) for PCI, etherr	net, and l	JSB,				- Pa - Se	dlock l curity	em to fix loop (in l slot (in r	rear for ear for	opt pac optional	l ´		
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT	Two USB 2.0, microphone Six USB 2.0, serial (9-pin Line-in (stereo, 3.5mm), I r Two USB 2.0 planar conn High Definition (HD) Audi Internal speaker for busin One gigabit ethernet port Intel Active Management), ethernet (RJ-45), ne-out (stereo, 3.5m (1 used; one open o, Realtek® ALC662 ess audio , Intel 82578DM, Wa	monitor (nm), micr for media codec lke on LA	VĜA DB- ophone-i reader o	15, E n (ste	Displa ereo,	3.5mm)	PowHardBootSerial	er-on p d disk p t seque t witho al port	on® Mici passwor passwor ence coi ut keybo I/O con USB por	d d ntrol pard and trol	d mouse			
Modem Security chip	None STMicroelectronics ST19 TCG 1.2-compliant			•	,			• ENE	AT™ G RGY S	vironme fold ratin STAR® 5	ng .0-comp				
Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable sp	SB connector), black	, Lenovo	logo	Leno	vo® lo	ogo	• RoH	S-com						
Preloaded opera	atina system ²⁰	Accessories						Suppo	rts I nii	nkVanta	.ge® tec	nnologi	es ———		
through downg Windows 7 Pro Professional 32 Preloaded appli • Rescue and Re • Client Security • ThinkVantage • ThinkVantage • ThinkVantage • Lenovo Systen • Norton™ Interr (30 days of viru • Adobe® Reade • Adobe Flash® I • Skype™ for Wii • Microsoft® Offic • Corel® Burn.No	Solution™ Productivity Center System Update Power Manager n Toolbox net Security 2009 us definitions) r® Player ndows ce 2007 Trial (60-day) bw™ (DVD±RW) vieFactory® (DVD±RW)	1TB SATA 3.0Gb/s	DDR3 UD b/s Disk c Disk (72 r DL DVE gle-link D A Monitor 512MB on O-M9	IMM (7200 rpr) 200 rpm) D±RW SA VI-D Cab Cable 310 (DP, 0 sheet	TA D ble VGA sorie	rive 4	45J7915 57Y4393 57Y4397 de	int int int int int int int int int int	rear parernation stome rts only selection - Friest busing selection - Friest busing selection - Friest business from the selection - Friest business from the selection - Friest business from the selection - Friest business from the selection - Friest business from the selection - Friest business fries	Limited urts and onal War r Replace y (with I ted parts coveraginess dairvice up le locatil LOR 9x8 Plus Part LOR 9x8 Plus part LOR 9x8 Plus part LOR 9x8 Plus part LOR 247 Pl	labor tranty Sceable Limited of significant of the	ervice ⁹ Jnit (CR Jn	ervice blidays, ie) nse 192) onse 93) is Day 94) onse 95) onse		

Slot x	Base Max Tui	ho	CATA	2nd Disk	SATA	Integrated	Monitor	ENERGY	Intol	Win7	Global	Avail
Type-model bay	Processor GHz GHz	CoresMemory ⁸	disk	Bay	optical	graphics		STAR 5.0		preload		date
5498-B5U 4x4	Core i5-650 3.20 3.46 Core i5-660 3.33 3.60		250GB	None	DVD±RV DVD±RV	/ Intel HD	VGA, DF	P ES50	vPro		None	Feb 10
	Core i5-650 3.20 3.46 Core i5-660 3.33 3.60	2 <i>3GB</i>	500GB	None	DVD±RV DVD±RV	/ Intel HD	VGA, DF	ES50	vPro	Pro 32	None	Feb 10
5498-E9U 4x4	Core i5-660 3.33 3.60 • Next Generation Intel p					Intel HD					None	Feb 10
	Most manageable Think	Centre ever: sup	ports L						recini	lology		
* For more informa	 These models have a 3 tion on Lenovo Secure Ma 	•	-	.com/ac	c							
Positioning	Ultimate security, stability,	and manageabil	ity for th	e enterp	rise	Tower						7
Processor	Intel® Core™ i5 Processo Intel 64, Hyper-Threading	Technology, Turb	o Boost	Technol	ogy,	Business6.9" W X			case		optical	וב
	Virtualization Technology, DDR3 memory controller,		1333MH	z dual-ch	nannel	• 175mm W	/ X 442n	nm D X 41			3	ᅬ
Implementation	Processor in LGA1156 so		10000 1	0008411-	DDDa	24.2 lb (1Handle or	n top fror	nt	•	L	disk	
Memory	2GB or 3GB std , 8GB ma four 240-pin DIMM socket	s;			•	Power butToolless of	cover ren	noval				
	Italics: standard men Non-italics: standard men	nory in two socke nory in one socke				Tilted fromToolless of				al		
Graphics	Intel HD Graphics in pro-	cessor, HDCP, Di	rectX® 1			 Toolless a 	adapter r	etention		Ļ		
	uses main memory (up to 1277MB [3GB models]),					Bay ① 5.25 Bay ② 5.25	5", 1.6" h	iigh, acce	SS,	std optio		
	one analog VGA DB-15 co supports dual independer		playPor	t™ conne	ector,	Bay ③ 3.5" Bay ④ 3.5"				open (re std disk		iskette)
DP dongle	None					Slot 1: half-					(75w m	ax)
SATA disk SATA DVD±RW	250GB or 500GB, SATA 3 Super Multi-Burner DL DV	'D±RW SATA 1.5	Gb/s Dr	ive		Slot 2: half- Slot 3: half-	length, f	ull-height.	, 32-bi	t PCI 2.3	3	
SATA Controller	Serial ATA, SATA 3.0Gb/s three SATA connectors for		pset,		Į	Slot 4: half-	lengtn, t	uli-neignt			3	
eSATA port Diskette drive	None None	·					. 86	curity chi		urity	tion on	loft)
Media reader	None						Or	ne lock to	secur	e both co	over an	
Chipset	Intel Q57 Express Chips Platform Controller Hub (I SMSC® SCH5147 Super I		- F	tire syste Padlock Ic Security s Kensingto	op (in lot (in	rear for rear for	opt pac optiona	l				
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT	Two USB 2.0, microphone Six USB 2.0, serial (9-pin Line-in (stereo, 3.5mm), li Two USB 2.0 planar conn High Definition (HD) Audie Internal speaker for busin One gigabit ethernet port, Intel Active Management	n, ethernet (RJ-45) ne-out (stereo, 3, (1 used; one ope o, Realtek® ALC6 ess audio Intel 82578DM,	5), monit 5mm), ren for me 62 code Wake or	tor (VĠA micropho edia read ec n LAN®	DB-15, D ne-in (ste	isplayPort) reo, 3.5mm	• Po • Ha • Bo • Se	wer-on pard disk pard disk pard to sequel out sequel out withou erial port I. dividual U	asswo asswo nce co t keyb /O cor SB po	rd ontrol oard and otrol	d mouse ement	
Modem Security chip	None STMicroelectronics ST19	•		,	PM)			EAT™ Go	ld rati	ng		
	TCG 1.2-compliant			`				ERGY ST EENGUA			liant	
Keyboard Mouse	Preferred Pro USB Keybo Optical Wheel Mouse (US				ack, Leno	vo® logo		HS-comp				
Power supply Preloaded opera	280 watts with variable sp	eed fan, autosen	sing, 85	% PSŬ			Supp	orts Thin		age [®] tecl		es ———
Preloaded applic Rescue and Re Password Mana ThinkVantage S ThinkVantage F ThinkVantage F Norton™ Intern (30 days of viru Adobe® Reade Adobe Flash® F Skype™ for Wir Microsoft® Offic Corel® Burn.No	ager System Update Power Manager Toolbox et Security 2009 us definitions) Player Indows te 2007 Trial (60-day)	1GB PC3-1060 2GB PC3-1060 500GB SATA 3. 1TB SATA 3.0G Super Multi-Bur DisplayPort to V NVIDIA® GeFor More accessori Acc Guide in pc Other accessor	0 DDR3 0Gb/s E b/s Disk ner DL Single-lir 'GA Mor ce® 512 es on O	UDIMM Disk (7200 rp C (7200 rp DVD±RW nk DVI-D nitor Cab MB 310 -M90 she	om) / SATA Di / Cable le (DP, VGA eet	45J7915 57Y439 57Y439 sguide	0	3-year L (ThinkPlu 4-year L (ThinkPlu 4-year L (ThinkPlu	nal Wa Repla (with d part covera ess da vice u locati OR 9x us™ part OR 24 Us part OR 9x us part	rranty Seceable U limited of sis, 8 am ge exclusive respondence of sis, 5, 4 hour art number 5, 4 hour toumber to number 15, 4 hour toumber 15, 4	nit (CR nsite se-5 pm, ding ho nse tim options r responser 41C9 ur respons 41C919 8usines 41C919 r respons	ervice blidays, e) nse 192) onse 133) s Day 14) nse
							⇒ T le ⇒ F s ⇒ 2	4-year L (ThinkPlus in hinkPlus enovo.cor warra ervices a hour x iuring the ia 800-420	us part service n/think nnty m vailab 7 day ¹ warra	t number ces at cplus/war aintenan le toll-free inty perio	41C919 ranty ice suppo	96)

Type-model	Slot x bay	Processor	Base N GHz	lax Turk GHz		Memory ⁸		2nd Disk Bay		Integrated graphics	Monitor conn				Global (G GMP (P)	
5852-A1U	4x4	Core i5-650	3.20	3.46	2	2GB	250GB ²	None	DVD±RW	Intel HD	VGA. DP	ES50	vPro	Pro 32	GΡ	Feb 10

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
 Most manageable ThinkCentre ever: supports Lenovo Secure Managed Client version 2.0°
 This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

~	Fo	r mo	ore i	ntormation of	on Lei	novo	Se	cure	Man	aged	Client,	see	lend	ovo.	com/	acc
	_															

For more informa	tion on Lenovo Secure Managed Client, see lenovo.com/acc		
Positioning Processor	Ultimate security, stability, and manageability for the enterprise Intel® Core™ i5 Processor i5-650 with dual-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology, Virtualization Technology, TXT, integrated 1333MHz dual-channel DDR3 memory controller, and 4MB cache Processor in LGA1156 socket	• 6.9" W X 17 • 175mm W X	ack color; metal case .4" D X 16.3" H .442mm D X 414mm H .0 kg) in max configuration
Memory	2GB std , 8GB max, UDIMM , PC3-10600 1333MHz DDR3 , four 240-pin DIMM sockets; <i>Non-italics:</i> standard memory in one socket; three sockets available	Power buttoToolless covTilted front I	n on top handle ver removal /O for easy access
Graphics	Intel HD Graphics in processor, HDCP, DirectX® 10, uses main memory (up to 765MB),		k, optical drive removal apter retention
DP dongle	one analog VGA DB-15 connector, one DisplayPort™ connector, supports dual independent display None	Bay ② 5.25", Bay ③ 3.5",	1.6" high, access, std optical open (reader/disket
SATA disk SATA DVD±RW SATA Controller eSATA port Diskette drive	250GB, SATA 3.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s, integrated in chipset, three SATA connectors for disk and optical None None	Slot 1: half-lei Slot 2: half-lei Slot 3: half-lei	1" high, no access, sid disk ngth, full-height, PCIe 2.0 x16 (75w max) ngth, full-height, PCIe 2.0 x1 ngth, full-height, 32-bit PCI 2.3 ngth, full-height, 32-bit PCI 2.3
Media reader	None		Security
Chipset	Intel Q57 Express Chipset Platform Controller Hub (PCH) for PCI, ethernet, and USB, SMSC® SCH5147 Super I/O		Security chip (see information on left) One lock to secure both cover and entire system to fixed object:
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Intel AMT	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, I Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo USB 2.0 planar conn (1 used; one open for media reader or 2 relight Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio One gigabit ethernet port, Intel 82578DM, Wake on LAN® Intel Active Management Technology 6.0 (Intel AMT 6.0)	DisplayPort) ereo, 3.5mm)	- Padlock loop (in rear for opt padlock) - Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Hard disk password - Boot sequence control - Boot without keyboard and mouse - Serial port I/O control - Individual USB port disablement

Genuine Windows® 7 Professional 32

None

TCG 1.2-compliant

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager

Modem

Keyboard

Mouse

Security chip

Power supply

- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day) Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Accessories

Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), black, Lenovo logo

STMicroelectronics ST19NP18 Trusted Platform Module (TPM),

280 watts with variable speed fan, autosensing, 85% PSU

1GB PC3-10600 DDR3 UDIMM 57Y4389 2GB PC3-10600 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk(7200 rpm) 57Y4390 43R1990 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 DisplayPort to VGĂ Monitor Cable 57Y4393 NVİDIA® GeForce® 512MB 310 (DP, VGA) 57Y4397 More accessories on O-M90 sheet

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

- k)
- Individual USB port disablement

Environmental Features

- EPEAT™ Gold rating
- ENERGY STAR® 5.0-compliant GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage® technologies

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 41C9194)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 41C9195)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 41C9196)
- ThinkPlus services at
- lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
- 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

ThinkCentre® M90, M90p Accessories

Partial list of accessories supported on ThinkCentre M90 and

Memory	ı
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Eco Ultra Small 3244/3692/3257/3853/5296 use notebook memory: 1GB PC3-8500 DDR3 Low-Halogen SODIMM 55Y3706 ann 06/23/09 1GB PC3-8500 DDR3 Low-Halogen SODIMM 55Y3707 ann 06/23/09 2GB PC3-8500 DDR3 Low-Halogen SODIMM 55Y3707 ann 06/23/09 2GB PC3-8500 DDR3 Low-Halogen SODIMM 55Y3707 ann 06/23/09 2GB PC3-8500 DDR3 L-H SODIMM (25-Pack) 57Y4386 ann 06/23/09 1GB PC3-10600 DDR3 L-H SODIMM 55Y3709 ann 03/02/10

 1GB PC3-10600 DDR3 L-H SODIMM
 (25Pack) 57Y4415
 ann 03/02/10

 2GB PC3-10600 DDR3 L-H SODIMM
 55Y3710
 ann 03/02/10

 2GB PC3-10600 DDR3 L-H SODIMM
 55Y3710
 ann 03/02/10

 4GB PC3-10600 DDR3 L-H SODIMM
 55Y3711
 ann 03/02/10

 4GB PC3-10600 DDR3 L-H SODIMM
 55Y3711
 ann 03/02/10

Small 3245/5485/3269/5536/5864, and

Tower 3246/5474/3282/5498/5852 use desktop memory:

1GB PC3-10600 DDR3 Low-Halogen UDIMM 57Y4389 ann 01/12/10 1GB PC3-10600 DDR3 L-H UDIMM (25-Pack) 57Y4419 ann 01/12/10 2GB PC3-10600 DDR3 Low-Halogen UDIMM 57Y4390 ann 01/12/10 2GB PC3-10600 DDR3 L-H UDIMM (25-Pack) 57Y4420 ann 01/12/10

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max4 41N5618 ann 09/26/06 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ann 09/26/06

Storage and removable storage

250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 ann 01/24/06 43R1990 ann 11/06/07 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 ann 08/19/08 USB 2.0 Essential Memory Key 4GB 45J7904 ann 06/24/08 USB 2.0 Essential Memory Key 8GB 45J7905 ann 07/15/08 USB 2.0 Essential Memory Key 32GB 45K1258 ann 10/28/08 45J5915 ann 08/26/08 USB 2.0 Ultra Secure Memory Key 1GB USB 2.0 Ultra Secure Memory Key 2GB USB 2.0 Ultra Secure Memory Key 4GB 45J5916 ann 08/26/08 45J5917 ann 08/26/08 USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Portable 320GB Hard Disk 45J5918 ann 08/26/08 45K1689 ann 03/17/09 USB 2.0 Portable 500GB Hard Disk 45K1690 ann 05/26/09 USB 2.0 Portable Secure 160GB Hard Disk 43R2018 ann 11/18/08 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ann 11/18/08 eSATA/USB 2.0 Secure 500GB Hard Drive53 57Y4400 ann 01/07/10 USB 2.0 Super Multi-Burner Drive 41N5565 ann 01/23/07 USB 2.0 Portable DVD Burner 43N3264 ann 01/05/10 53 USB-only attach.

Graphics

 Graphics

 Small 3245/5485/3269/5536/5864 support Low Profile:

 NVIDIA® GeForce® 512MB 310 (DP, VGA)
 57Y4397 ann 02/02/10

 NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA)
 57Y4167 ann 03/02/10

 NVIDIA Quadro® 512MB FX 380 LP (DP, DVI)
 57Y4396 ann 02/02/10

Tower 3246/5474/3282/5498/5852 support 75 watts max:

NVIDIA GeForce 512MB 310 (DP, VGA) 57Y4397 ann 02/02/10 NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA) 57Y4167 ann 03/02/10

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard 73P5220 ann 06/21/05 Enhanced Performance USB Keyboard 73P2620 ann 03/23/04 Ultraslim Wireless Keyboard and Mouse⁵² 57Y4700 ann 09/15/09 ThinkPad® USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard 55Y9003 ann 08/18/09 73P4730 ann 02/22/05 Lenovo USB Smartcard Keyboard 51J0155 ann 03/24/09 ⁵² Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308 ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309 ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03
Lenovo ScrollPoint® Mouse(ÚSB, Optical)	31P7405 ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074 ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696 ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198 ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam 40Y8519 ann 08/29/06 ThinkPad In-Ear Headphones 57Y4488 ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock56 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock⁵⁶ 45K1620 ann 09/30/08 USB Gemplus GemPC Smart Card Reader 41N3040 ann 02/21/06 Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis

Mounting Device

Eco Ultra Small 3244/3692/3257/3853/5296 support

under desk mounting device:

ThinkCentre Ultra Small Under Desk Mount 40Y8625 ann 09/06/05

Monitors

Lenovo D186 Wide 18.5" Monitor	2580AB1 ann 01/12/10
Lenovo L2461x Wide 23.6" Monitor	4015HB1 ann 01/05/10
ThinkVision® L1711p 17" Monitor	5047HB2 ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1 ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6 ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6 ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6 ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6 ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2 ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Eco Ultra Small 3244/3692/3257/3853/5296 support:

Lenovo Vertical PC and Monitor Stand II 41R4474 ann 01/27/09

Lenovo USB-to-DVI Monitor Adapter 45K5296 ann 05/12/09 DisplayPort™ to Single-link DVI-D Cable 45J7915 ann 08/05/08 DisplayPort to VGA Monitor Cable 57Y4393 ann 08/04/09 ThinkVision USB Soundbar 40Y7616 ann 08/23/05 ThinkVision Soundbar 45K1263 ann 09/16/08 Kensington MicroSaver Cable Lock⁵⁶ 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock56 45K1620 ann 09/30/08 19K4464 ann 05/05/00 Radial Arm

⁴⁶Compatible on selected Lenovo and ThinkVision monitors. More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English 43R1528 ann 07/03/07 Microsoft Office 2007 Small Business, Engl 43R1534 ann 07/03/07 Microsoft Office 2007 Professional, English 43R1531 ann 07/03/07

For more information on desktop accessories, please visit: www.lenovo.com/support/accessories www.lenovo.com/support/desktopaccessories www.lenovo.com/support/security

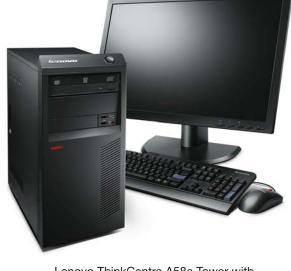
Other accessories at www.lenovo.com/accessories

Accessories Guide pdf at www.lenovo.com/accessoriesguide





Lenovo ThinkCentre A58e Tower



Lenovo ThinkCentre A58e Tower with Lenovo ThinkVision monitor



Lenovo ThinkCentre A58e Tower





Lenovo ThinkCentre A58e Tower





Lenovo ThinkCentre A58e Tower



Lenovo ThinkCentre A58e Tower

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Integrated graphics	Win7 preload	Global Educ	Avail date
A58e A58e A58e A58e A58e	0841-A4U 0841-A5U 0841-A6U 0841-ADU 0841-AEU	4x2 4x2 4x2 4x2 4x2 4x2	Celeron E3200 Pentium E5300 Pentium E5300 Pentium E5400 Pentium E5400	2.40 2.60 2.60 2.70 2.70	1MB 2MB 2MB 2MB 2MB	2 2 2 2 2	1GB 2GB 3GB 2GB 3GB	250GB ² 250GB 320GB 250GB 320GB	DVD DVD±RW DVD±RW DVD±RW DVD+RW	GMA 3100 GMA 3100 GMA 3100 GMA 3100 GMA 3100	Pro 32 Pro 32 Pro 32 Pro 32 Pro 32	None None None None None	Jan 10 Jan 10 Jan 10 Jan 10 Jan 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
 Affordable and reliable computing for everyday business tasks
 These models have a 1-year limited warranty¹

Positioning Processor Implementation Memory	800MHz system bus, and Processor in LGA775 soci 1GB, 2GB, or 3GB std, 4 non-parity, dual-channel c <i>Italics:</i> standard mer	or E3200 with dual-core, 1MB L2 cache or r E5300 or E5400 with dual-core, 2MB L2 cache	• 6.9" W X 16 • 175mm W X • 19.6 lb (8.9 • Handle on t	ack color; metal case 5.7" D X 14.6" H (425mm D X 371mm H kg) in typical configuration op front on on top handle	
Graphics		celerator 3100 (GMA 3100), , uses main memory,	Bay ② 3.5",	1.6" high, access, std optical 1" high, no access, std disk	
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port	Some: Super Multi-Burne		Slot 2: half-le Slot 3: half-le	ngth,full-height, PCI Express x16 ngth,full-height, PCI Express x1 ngth,full-height, 32-bit PCI 2.3 ngth,full-height, 32-bit PCI 2.3 Security	
Diskette drive Media reader	None None			One lock to secure both cover and entire system to fixed object:	
Chipset	Intel G31 Express Chips		- Padlock loop (in rear for opt padlock) - Security slot (in rear for optional		
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem Security chip	Four USB 2.0, serial (9-pii Line-in (stereo, 3.5mm), li High Definition (HD) Audio None None Gigabit ethernet on planar None None None	, Marvell® 88E8057	s) / eo, 3.5mm)	Kensington® MicroSaver® cable) Boot sequence control Boot without keyboard, mouse	
Keyboard Mouse Power supply		ard (USB connector), 104-key, black, Lene B connector), 400 dpi, black, Lenovo logo ual switch		RoHS-compliant	
Preloaded appli ThinkVantage ThinkVantage ThinkVantage Norton™ Interr (30 days of vir Lenovo Syster Adobe® Reade Adobe Flash® Skype™ for Wi Microsoft® Offi	cations ⁵ (only some listed) Product Recovery System Update Power Manager net Security 2009 us definitions) n Toolbox Player ndows ce 2007 Trial (60-day) Business Edition	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM Lenovo USB-to-DVI Monitor Adapter DisplayPort™ to Single-link DVI-D Cable DispayPort to VGA Monitor Cable ADD2 DVI-D Monitor Connection (HDCF ATI™ Radeon™ HD 3470 256MB (DP, V6 More accessories on O-A58E sheet Acc Guide in pdf lenovo.com/accessori Other accessories at lenovo.com/accessori	57Y4393 P) 43R1985 GA) 45K1636 esguide	Limited Warranty¹ □ 1-year parts and labor □ International Warranty Service³ □ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) □ Onsite service upgrade options (in eligible locations):² • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) □ ThinkPlus part number 45K5953) □ ThinkPlus services at lenovo.com/thinkplus/warranty □ Post warranty maintenance services available □ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

ThinkCentre® A58e Accessories

Partial list of accessories supported on ThinkCentre A58e Tower

Memory		
1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM `	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Optical

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max⁴ 41N5618 ann 09/26/06 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ann 09/26/06

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm) 250GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254 41N3015	ann 05/19/03 ann 01/24/06
USB 2.0 Essential Memory Key 4GB USB 2.0 Essential Memory Key 8GB USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 1GB USB 2.0 Ultra Secure Memory Key 2GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Portable 320GB Hard Disk USB 2.0 Portable 500GB Hard Disk USB 2.0 Portable Secure 160GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Secure 500GB Hard Disk USB 2.0 Secure 500GB Hard Drive USB 2.0 Super Multi-Burner Drive USB 2.0 Portable DVD Burner	45J7904 45J7905 45K1258 45J5915 45J5916 45J5917 45J5918 45K1689 45K1690 43R2018 43R2019 57Y4400 41N5565 43N3264	ann 06/24/08 ann 07/15/08 ann 10/28/08 ann 08/26/08 ann 08/26/08 ann 08/26/08 ann 03/17/09 ann 05/26/09 ann 11/18/08 ann 11/18/08 ann 01/07/10 ann 01/23/07 ann 01/05/10

Graphics

Graphics

DisplayPort™ to Single-link DVI-D Cable⁵0

DisplayPort to VGA Monitor Cable⁵0

ADD2 DVI-D Monitor Connection (HDCP)

ATI™ Radeon™ HD 3470 256MB (DP, VGA)

NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA) 57Y4167

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

TY4167 ann 03/02/10

More information at www.lenovo.com/support/graphiccards

Keyboard

Reyboard		
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard		ann 03/24/09
52 Wireless via 2.4GHz technology using a	a micro-size l	JSB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock56	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06
⁵⁶ Attaching to any form factor not only sec	ures the Thi	inkCentre to
the work area, but it also prevents users	from openir	ng the chassis
itself		0

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2 ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1 ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6 ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6 ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6 ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6 ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2 ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock56	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock56	45K1620	ann 09/30/08
Radial Ărm	19K4464	ann 05/05/00
46 Compatible on selected Lenovo and T	hinkVision mo	nitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit: www.lenovo.com/support/accessories www.lenovo.com/support/desktopaccessories www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories





Lenovo ThinkCentre A58 Small and Lenovo ThinkCentre A58 Tower



Lenovo ThinkCentre A58 Small with Lenovo ThinkVision monitor





Lenovo ThinkCentre A58 Small



Lenovo ThinkCentre A58 Small with dual Lenovo ThinkVision monitors





Lenovo ThinkCentre A58 Tower



Lenovo ThinkCentre A58 Tower

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Preload	Global Educ	Avail date
A58	7522-M8U	2x3	Celeron E3200	2.40	1MB	2	1GB	250GB ²	DVD±RW	GMA	XP Pro	None	Nov 09
A58	7522-K6U	2x3	Pentium E6300	2.80	2MB	2	2GB	250GB	DVD ±RW	GMA	XP Pro	None	Nov 09
A58	7522-K7U	2x3	Pentium E6300	2.80	2MB	2	3GB	320GB	DVD±RW	GMA	XP Pro	None	Nov 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty

Positioning Processor	Quality, reliability, and security for small/medium businesses Intel® Celeron® Processor E3200 with dual-core, Virtualization Technology, 800MHz system bus, and 1MB L2 cache or	Small	optical disk (in rear)
Implementation	Intel Pentium® Processor E6300 with dual-core, Virtualization Technology, 1066MHz system bus, and 2MB L2 cache Processor in LGA775 socket	Bay ② 3.5", Bay ③ 3.5",	1.6" high, access, std optical 1" high, no access, std disk .5" high, access, open (reader) rofile, PCI Express x16 (35w max)
Memory	1GB, 2GB, or 3GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets avail; <i>Non-italics:</i> standard memory in one socket; one socket available	Slot 2: Low Pr • Business bla • 12.5" W X 1	offile, 32-bit PCI 2.3 ack color; metal case 4.0" D X 3.9" H 355mm D X 99mm H
Graphics	Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 512MB [1GB models], 1GB [2GB or 3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter	16.5 lb (7.5Toolless covToolless dislToolless adaToolless sys	kg) in maximum configuration rer flips up and tilts backward on rear hinges k, optical drive removal apter retention temboard retention
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors on p None None None		Security Security Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 LPC bus)	s, USB,	Power-on password Administrator password Hard disk password Boot sequence control
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5r Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse thernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stere High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN®	se (PS/2),	Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement
Intel AMT Modem	None None		Supports ThinkVantage® technologies
Security chip Keyboard	None Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno	vo® logo	GREENGUARD® certified RoHS-compliant
Mouse Power supply	Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing		Limited Warranty¹

Preloaded operating system²⁰

Windows® XP Professional preinstalled through downgrade rights in Genuine Windows 7 Professional

Preloaded applications⁵ (only some listed)

- Rescue and Recovery™
- Password Manager
- Lenovo Care™
- ThinkVantage System Update
- ThinkVantage Power Manager McAfee® VirusScan® Plus
- (30 days of virus definitions) Lenovo System Toolbox

- Adobe® Reader®
 Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Small Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

Accessories

1GB PC2-6400 DDR2 UDIMM 41U2977 2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 43R1990 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB FX 370 LP 55Y9275 More accessories on O-A58 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at **lenovo.com**/accessories

- 1-year parts and labor
- International Warranty Service⁹
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951)
 - 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949) 2-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 45K5952) 3-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 45K5950) 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance
- services available
- 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	Cores	Memory ⁸	SATA disk	SATA optical	Graphics	Win7 preload	Global Educ	Avail date
A58	7522-M9U	2x3	Celeron E3200	2.40	1MB	2	1GB	250GB ²	DVD±RW	GMA	Pro 32	None	Nov 09
A58	7522-P1U	2x3	Pentium E5300	2.60	2MB	2	2GB	250GB	DVD±RW	GMA	Pro 32	None	Nov 09
A58	7522-P2U	2x3	Pentium E5300	2.60	2MB	2	<i>3GB</i>	320GB	DVD±RW	GMA	Pro 32	None	Nov 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 1-year limited warranty

Positioning Processor	Quality, reliability, and security for small/medium businesses Intel® Celeron® Processor E3200 with dual-core, Virtualization Tehnology, 800MHz system bus, and 1MB L2 cache or Intel Pentium® Processor E5300 with dual-core, 800MHz system bus, and 2MB L2 cache Processor in LGA775 socket	Bay @ 3.5",	optical disk (in rear) 1.6" high, access, std optical 1" high, no access, std disk				
		Bay ③ 3.5",	.5" high, access, open (reader)				
Memory Graphics	1GB, 2GB, or 3GB std, 4GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; <i>Italics</i> : standard memory in both sockets; no sockets avail; <i>Non-italics</i> : standard memory in one socket; one socket available Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G41, uses main memory (up to 253MB <i>IGB</i> models), 765MB <i>IGB</i> models), or	Slot 2: Low Po • Business bla • 12.5" W X 1 • 317mm W X • 16.5 lb (7.5	Slot 1: Low Profile, PCI Express x16 (35w max) Slot 2: Low Profile, 32-bit PCI 2.3 Business black color; metal case 12.5" W X 14.0" D X 3.9" H 317mm W X 355mm D X 99mm H 16.5 lb (7.5 kg) in maximum configuration				
	1277MB [3GB models]), one analog VGA DB-15 connector, DirectX® 10, supports dual independent display with optional ADD2 adapter	Toolless disToolless adaToolless sys	ver flips up and tilts backward on rear hinges k, optical drive removal apter retention stemboard retention				
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port Diskette drive Media reader	250GB or 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening Serial ATA, SATA 3.0Gb/s, integrated in ICH7 Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), two SATA connectors on p None None None		Security Security Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) - optional cable also locks the cover by deactivating the cover release buttons				
Chipset	Intel G41 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, PCI 2.3 LPC bus)	, USB,	Power-on password Administrator password Hard disk password Boot sequence control				
Front ports Rear ports Rear audio ports Audio Speaker IEEE 1394 Ethernet Intel AMT Modem	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse thernet (RJ-45), monitor (VGA DB-15) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stere High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio None Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None	se (PS/2),	Boot seitler de control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control USB port disablement				
Security chip	None		Supports ThinkVantage® technologies				
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno Optical Wheel Mouse (USB connector), 400 dpi, black, Lenovo logo 280 watts with variable speed fan, autosensing	vo® logo	GREENGUARD® certified RoHS-compliant				
	ating system ²⁰ Accessories ows® 7 Professional 32 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM	41U2977 41U2978	Limited Warranty¹				

- ThinkVantage System Update
 ThinkVantage Power Manager
 ThinkVantage Toolbox

- Lenovo Online Data Backup
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day) Roxio® Creator® Small Business Edition
- (DVD±RW)
- Roxio MyDVD® (DVD±RW)

Preloaded applications⁵ (only some listed)

• Rescue and Recovery™

• Password Manager

• Password Manager

• This Nation Control Models 41N3015 43R1990 45J7918 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 DisplayPort to Single-link DVI-D Cable 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATI™ Radeon™ HD 3470 256MB (DP, VGA) NVIDIA® Quadro® 256MB FX 370 LP 45K1636 55Y9275 More accessories on O-A58 sheet

> Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- ✓ International Warranty Service⁹
 ✓ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):
 - 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951) 2-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 45K5949) 2-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 45K5952) 3-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 45K5950) 3-year LOR 9x5, 4 hour response
 - (ThinkPlus part number 45K5953)
- ThinkPlus services at lenovo.com/thinkplus/warranty
- Post warranty maintenance services available
 - 24 hour x 7 day14 toll-free support during the warranty period via 800-426-7378

ThinkCentre® A58 Accessories

Partial list of accessories supported on ThinkCentre A58

Memory		
1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM `	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Optical All:

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max⁴ 41N5618 ann 09/26/06 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ann 09/26/06

Tower 7515/7611 supports:

Blu-ray™ Burner SATA 1.5Gb/s Drive 45K1675 ann 03/31/09

Storage and removable storage 160GB SATA 3.0Gb/s Disk (7200 rpm) 250GB SATA 3.0Gb/s Disk (7200 rpm) 09N4254 ann 05/19/03 ann 01/24/06 41N3015 500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 ann 11/06/07 1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 ann 08/19/08 USB 2.0 Essential Memory Key 4GB 45,17904 ann 06/24/08 USB 2.0 Essential Memory Key 8GB 45J7905 ann 07/15/08 USB 2.0 Essential Memory Key 32GB 45K1258 ann 10/28/08 USB 2.0 Ultra Secure Memory Key 1GB 45J5915 ann 08/26/08 45J5916 USB 2.0 Ultra Secure Memory Key 2GB ann 08/26/08 USB 2.0 Ultra Secure Memory Key 4GB 45J5917 ann 08/26/08 USB 2.0 Ultra Secure Memory Key 8GB 45J5918 ann 08/26/08 USB 2.0 Portable 320GB Hard Disk USB 2.0 Portable 500GB Hard Disk 45K1689 ann 03/17/09 45K1690 ann 05/26/09 USB 2.0 Portable Secure 160GB Hard Disk 43R2018 ann 11/18/08 USB 2.0 Portable Secure 320GB Hard Disk 43R2019 ann 11/18/08 eSATA/USB 2.0 Secure 500GB Hard Drive 57Y4400 ann 01/07/10

Graphics

Small 7522/7705 support Low Profile 35 watts max: DisplayPort™ to Single-link DVI-D Cable 50 ann 08/05/08 45J7915 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ATITM RadeonTM HD 3470 256MB (DP, VGA) 45K1636 NVIDIA® Quadro® 256MB FX 370 Low-Profile 55Y9275 ann 11/06/07 ann 11/18/08 ann 07/28/09 NVIDIA GeForce® 310 DMS59(2-DVI, 2-VGA)57Y4167 ann 03/02/10

41N5565 ann 01/23/07

43N3264 ann 01/05/10

Tower 7515/7611 supports 75 watts max: DisplayPort to Single-link DVI-D Cable⁵⁰

USB 2.0 Super Multi-Burner Drive

USB 2.0 Portable DVD Burner

45J7915 ann 08/05/08 ADD2 DVI-D Monitor Connection (HDCP) 43R1985 ann 11/06/07 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 ann 11/18/08 NVIDIA GeForce 9500GT 512MB (DP, DVI) 45K1635 NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA) 57Y4167 ann 11/18/08 ann 03/02/10 50 Attaches to the ThinkCentre compatible DisplayPort graphics card.

More information at www.lenovo.com/support/graphiccards

Keyboard

Preferred Pro USB Keyboard 73P5220 ann 06/21/05 Preferred Pro Full Size PS/2 Keyboard 31P7415 ann 06/04/02 Enhanced Performance USB Keyboard 73P2620 ann 03/23/04 Ultraslim Wireless Keyboard and Mouse⁵² 57Y4700 ann 09/15/09 Lenovo® USB Fingerprint Keyboard 73P4730 ann 02/22/05 Lenovo USB Smartcard Keyboard 51J0155 ann 03/24/09 52 Wireless via 2.4GHz technology using a micro-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam 40Y8519 ann 08/29/06 ThinkPad® In-Ear Headphones 57Y4488 ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock56 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock⁵⁶ 45K1620 USB Gemplus GemPC Smart Card Reader 41N3040 ann 09/30/08 ann 02/21/06 Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis

Monitors

itself.

ThinkVision® L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories 46

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock56	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00
46 Compatible on selected Lenovo and Th	inkVision mo	nitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)
Microsoft® Office 2007 Basic, English
Microsoft Office 2007 Small Business, Engl
43R1534 ann 07/03/07 ann 07/03/07 Microsoft Office 2007 Professional, English 43R1531 ann 07/03/07

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Other accessories at www.lenovo.com/accessories





Lenovo ThinkCentre A62 Desktop with four Lenovo ThinkVision monitors



Lenovo ThinkCentre A62 Tower



Lenovo ThinkCentre A62 Desktop







Lenovo ThinkCentre A62 Desktop with Lenovo ThinkVision L193p monitor



Lenovo ThinkCentre A62 Tower with Lenovo ThinkVision L193p monitor

Name Type-model	Slot x AMD bay processor	GHz Core	Memory	SATA disk	SATA optica		Monitor connectors	Preload	Global Educ	Avai date	
A62 9945-A7U A62 9945-A3U A62 9945-A8U	4x3 Sempron LE-1300 4x3 Athlon 1640B 4x3 Athlon X2 5000B 4x3 Athlon X2 5000B 4x3 Athlon X2 5000B 4x3 Athlon X2 5000B 4x3 Phenom X3 8600B • These small and mediu • These models have a 3	2.3 Triple m business (e 1GB 1GB 2GB 1GB 2GB 4GB SMB) mod	160GB ² 160GB 250GB 160GB 160GB 250GB 500GB	DVD±F DVD DVD DVD±F DVD±F DVD±F DVD±F t of the U	3100 3100 RW 3100 RW 3100 RW 3100	VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D Program	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	None None None None None None	Jul 0 Jul 0 Jul 0 Jun 0 Jul 0 Jul 0 Jun 0	
Positioning	Quality, reliability, and ma	nageability fo	r small/me	edium busir	nesses	Desktop		2	¬ □ ont		
Processor Implementation	AMD [®] Sempron [™] Procesintegrated DDR2 memory AMD Athlon [™] Processo technology, int DDR2 mem AMD Athlon X2 Dual-Codual-core, virtualization toontroller, and 1MB dedic AMD Phenom [™] X3 Triple triple-core, virtualization controller, 1.5MB dedicate Processor in Socket AM2	r controller, ar r 1640B with mory controlle re Processo echnology, in ated L2 cach e-Core Proce technology, ir ed L2 cache a	nd 512KB single-corer, and 512 r 5000B of tegrated Defense or essor 860 ntegrated	L2 cache ore, virtualiza 2KB L2 cac or 5400B with DDR2 memore DDR2 memore DDR2 memore DDR2 memore	ation he or th ory	black color .16.2" D X 4.1" H / X 412mm D X 104mm H 8kg) in typical configuration over removal lisk, diskette drive, optical drive removal dapter retention ", 1.6" high, access, std optical , 1" high, access, open*					
Memory	1GB, 2GB, or 4GB std, 8 non-parity, dual-channel classifications:	capable, four 2	240-pin DI	Bay ③ 3.5", * supports re	1" high, no a eader/diskette/2r	ccess, std nd disk	disk				
Graphics	Non-italics: standard mer ATI™ Radeon™ 3100, int memory (up to 512MB), c one DVI-D connector, Dire	nory in one se egrated graph one analog VC	ocket; thre nics in 780 A DB-15	Slot 2: Low F Slot 3: Low F	Profile, PCI Express 2.0 x1 Profile, PCI Express 2.0 x16 (35w max) Profile, 32-bit PCI 2.3 Profile, 32-bit PCI 2.3						
	supports dual independer monitors with optional dua	nt display; sup	ports up t	to 4 indepe			Security chi	n loft)			
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive Media reader	160GB, 250GB, or 500Gl Serial ATA, SATA 3.0Gb/s Some: DVD-ROM DL SA Some: Super Multi-Burne Two SATA cables (each 1 None None None None	, integrated ir TA 1.5Gb/s 1 er DL DVD±R	Ü	One lock to secure both cowentire system to fixed object Padlock loop (in rear for op Security slot (in rear for op Kensington® MicroSaver® of Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard, moust			adlock) ial e)				
Chipset	AMD 780V Chipset with SB700 south bridge for SPCI 2.3, USB, LPC bus /	AŤÀ 3.0Gb/s v	with RAID	0/1 support			Serial port I/O control Parallel port I/O control Individual USB port disablement				
Front ports Rear ports Internal connector Rear audio ports	Two USB 2.0, microphone Six USB 2.0, serial (9-pin ethernet (RJ-45), monitor Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li), parallel (25 (VGA DB-15 (1 used; one	-pin), keyb , DVI-D) open for i	ooard (PS/2 media read), mouse er or 2 re	(PS/2), ar USB ports		· 			
Audio Speaker	High Definition (HD) Audi- One internal speaker for h	o, Realtek® A ousiness audi	LC662 cod o	dec			Supports Thin			gies	
Ethernet Modem Security chip	Gigabit ethernet on plana None Winbond WPCT200 Safel		•		•		GREENGUAF RoHS-complia				
Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US 220 watts with variable sp	B connector)	, 400dpi, l	olack, Leno		vo® logo	⇒ 3-year part⇒ Internation	al Warrant	or ty Service		
(preinstalled vi. Windows Vista Preloaded appli Rescue and Re Client Security ThinkVantage ThinkVantage McAfee® Virust (30 days of viru Lenovo Systen Adobe® Reade Microsoft® Offie Roxio® Creator (DVD±RW) Roxio MyDVD®	ows® XP Professional a downgrade rights in ® Business) cations⁵ ecovery™ Solution™ Productivity Center System Update Scan® Plus us definitions) n Toolbox r® ce 2007 Trial (60-day) ® Business Edition	Accessorie 1GB PC2-6 2GB PC2-6 500GB SAT DVD-ROM I Super Multi ATI Radeon More acces Acc Guide i Other acces	400 DDR2 400 DDR2 A 3.0Gb/s DL SATA 1 -Burner D HD 3470 sories on n pdf lenc	2 UDIMM 5 Disk (7200 1.5Gb/s 16- L DVD±RW 256MB (DI O-A62 she	48X Max SATA Di P, VGA) et cessorie	rive 41N5620 45K1636 sguide	• 3-year L (ThinkPlu • 4-year L (ThinkPlu • 4-year L (ThinkPlu • 4-year L	(with limited parts³, 8 overage exess day reseased per evice upgral locations) OR 9x5, 4 los part num OR 9x5, Neus part num OR 9x5, Neus part num OR 9x5, Veus part num OR 9x5,	ed onsite am - 5 pn xcluding I sponse ti de option : ⁷ hour resp umber 45K5 hour res ber 45K5 ext Busine bour 45K5 hour res bour 45K5 hour res bour 45K5 hour res ho	service 1, noliday me) s onse 5955) ponse 956) ess Day 957) onse 958) ponse 959)	

(ATHN1-7) June 2009

Name Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	Preload	Global Educ	Ava dat	
A62 9486-F1U A62 9486-F2U		Athlon 1640B Athlon X2 5000B	2.7 2.6	Single Dual	1GB	160GB ² 160GB	DVD DVD	3100 3100	VGA, DVI-D VGA, DVI-D	XP Pro XP Pro	None None	Sep 0	
A62 9486-F3U A62 9486-F4U	4x3 4x3	Athlon X2 5000B Athlon X2 5000B	2.6 2.6	Dual Dual	1GB <i>2GB</i>	160GB 160GB	DVD±RW DVD±RW		VGA, DVI-D VGA, DVI-D	XP Pro XP Pro	None None	Sep 0	
A62 9486-J8U	4x3	Athlon X2 5000B	2.6	Dual	2GB	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jun 0	
A62 9486-F5U 9486-F6U	4x3 4x3	Athlon X2 5000B Athlon X2 5400B	2.6 2.8	Dual Dual	<i>2GB</i> 1GB	250GB 160GB	DVD±RW DVD	9300GE 3100	DVI-I VGA, DVI-D	XP Pro XP Pro	None None	Sep 0 Sep 0	
A62 9486-F7U		Athlon X2 5400B	2.8	Dual	2GB	250GB	DVD±RW		VGA, DVI-D	XP Pro	None	Sep 0	
A62 9486-F8U A62 9486-F9U	4x3 4x3	Phenom X3 8450 Phenom X3 8450	2.1 2.1	Triple Triple	1GB <i>2GB</i>	250GB 160GB	DVD DVD±RW	3100 <i>9300GE</i>	VGA, DVI-D DVI-I	XP Pro	None None	Sep 0	
A62 9486-J6U	4x3	Phenom X3 8600B		Triple	1GB	160GB	DVD+BW	3100	VGA, DVI-D	XP Pro	None	Jun 0 Jun 0	
A62 9486-J7U	4x3 • <i>Th</i>	Phenom X3 8600B ese models have a 3		Triple <i>limited</i>	2GB <i>warranty</i> 1	160GB	DVD±RW	3100	VGA, DVI-D	XP Pro	None	Jun C	
Positioning Processor		lity and manageabili [®] Athlon™ Process						Desktop		2	Opt	ical	
110000001	techn	ology, int DDR2 me	mory o	controlle	r, and 512	2KB L2 c	ache or	Desciones to	la ale a ala e		disk		
		Athlon X2 Dual-Cocore, virtualization to						 Business b 13.0" W X 	іаск союг 16.2" D X 4.1" F	- └──			
	contro	oller, and 1MB dedic	cated L	_2 cache	e or			• 331mm W	X 412mm D X 1	04mm H			
	AMD Phenom™ X3 Triple-Core Processor 8450 or 8600B with triple-core, virtualization technology, integrated DDR2 memory • 10.4								kg) in typical co ver removal	ntiguration			
Implementation	contro	oller, 1.5MB dedicat essor in Socket AM2	ed L2	cache a	 Toolless dis 	sk, diskette drive lapter retention	e, optical d	rive remo	val				
Memory		or 2GB std , 8GB m			in DIMM	sockets:		Bay ① 5.25"	, 1.6" high, acce		optical		
•	Italics	s: standard me	mory i	n two so	ckets; two	sockets		Bay ② 3.5", Bay ③ 3.5",		ess, ope access, std			
	F8U/F9U: PC2-5300 667MHz DDR2, non-parity, dual-channel; *								ader/diskette/2r		3.510		
	Other	rs: PC2-6400 80	0MHz	DDR2,	Slot 1: Low F	Profile, PCI Expi	ress 2.0 x1						
Graphics	Some	e: ATI™ Radeon™ memory (up to 5			Slot 2: Low F	Profile, PCI Expi	ress 2.0 x1		ax)**				
		one DVI-D conn	Direc	tX® 10, 1	ati Avivo	™, Surroi	undView™,		ow Profile, 32-bit PCI 2.3 ow Profile, 32-bit PCI 2.3				
		supports dual in monitors with op						** used in so	me models				
	Some	e: NVIDIA® GeFore	ce® 93	00 GE,	PCI Expr	ėss® x16	adapter,			Security	,		
		256MB, one DVI S-Video out for T							Security chi			on left)	
SATA disk	160G	B or 250GB , SATA	3.0Gb/	/s 7200	rpm, vibra	ation dan	pening mou	ınts	One lock to entire syste			and	
SATA controller SATA DVD		l ATA, SATA 3.0Gb/s e: DVD-ROM DL SA							- Padlock lo			adlock)	
SATA DVD±RW		e: Super Multi-Burn							- Security s	lot (in rear n® MicroSa			
SATA cables eSATA port	Two S None	SATA cables (each 1	-drop	to devic	e), four S	ATA conr	ectors on p	lanar	Power-on page	assword		10)	
EIDE controller	None								 Administrate Hard disk page 	or passwoi assword	rd		
Diskette drive Media reader	None None								 Boot seque 	nce contro			
Chipset		780V Chipset with	Hyper	Transpo	rt™ 3.0 a	nd PCI E	xpress 2.0	support;	 Boot without keyboard, mouse, diskette Serial port I/O control 				
•	SB70	0 south bridge for S 2.3, USB, LPC bus /	ATA 3.	.0Gb/s v	vith RAID	0/1 supp	ort, ATA-133		Parallel port I/O control Individual USB port disablement				
Front ports	Two U	JSB 2.0, microphon	e (ster	eo, 3.5n	nm), head	lphone (s	stereo, 3.5m		Supports ThinkVantage® technologies				
Rear ports	ether	SB 2.0, serial (9-pin net (RJ-45),				oaiu (PS	or∠), mouse	(13/2),	GREENGUAF	RD® certifie	ed		
	F5U/I Other	<i>F9U:</i> monitor (DVI- rs: monitor (VGA							RoHS-complia	ant			
	r Two L	JSB 2.0 planar conr	1 (1 us	ed; one	open for i	nedia re	ader or 2 re	ar USB ports)	Li	mited Wa	rranty ¹		
Rear audio ports Audio		in (stereo, 3.5mm), l Definition (HD) Audi					ione-in (ste	ieo, s.amm)	⇒ 3-year part				
Speaker Ethernet	One i	nternal speaker for bit ethernet on plana	busine	ss audio)		AN® ACEO	0					
Modem	None		u, iviai	veii oo	L6070, vv	ake on L	AIN', AGE Z	0	parts only	(with limit	ed onsite	servic	
Security chip		ond WPCT200 Safe						· ·	for selecte Mon - Fri c	overage e	xcluding	holiday	
Keyboard Mouse	Optical	rred Pro USB Keybo al Wheel Mouse (US	SB cor	nector),	400dpi, l	olack, Le		o logo	next busin				
Power supply		vatts with variable sp							(in eligible • 3-year L	locations)): ⁷		
- Genuine Wind		system²⁰ ⟨P Professional		essorie 3 PC2-5	e s 300 CL5 I	ווו פאממ	DIMM	73P4984	(ThinkPlu	us™ part nu	ımber 45k	(5955)	
(preinstalled v	∕ia dowi	ngrade rights in	2GE	3 PC2-5	300 CL5	DDR2 UI	DIMM	73P4985	• 3-year L (ThinkPlu	OR 24x7, 4 us part num			
Windows Vist		,	200		400 DDR 400 DDR			41U2977 41U2978	• 4-year L	OR 9x5, N	ext Busin	ess Da	
 Preloaded appl Rescue and F 		is ⁵ (only some listed 'V™	¹⁾ 500	GB SAT	A 3.0Gb/s	Disk (72	200 rpm)	43R1990	• 4-year L	us part num OR 9x5, 4 l			
 Client Securit 	y Soluti	ion™					16-48X Max RW SATA Di	41N5618 rive 41N5620	(ThinkPlu	us part num	nber 45K5	958)	
 McAfee® Virus Microsoft® Off 			ATİ	Radeon	HD 3470	256MB	(DP, VGA)	45K1636		us part num	nber 45K5		
 Roxio® Creato 					sories on			equide	ThinkPlus lenovo.cor				
(DVD±RW) • Roxio MyDVD	® (DVD	±RW)					/accessorie com/access		≈ 24 hour x 7	7 day¹⁴ toll⋅	free sup	oort	
Corel® WinDV	'D® (DV	D, DVD±RW)							during the	warranty	period ¹		
		nt warranty information		dels on S	Sentember	9 2008				(/	ATHN1-7)	© Len	

Name	Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	Preload	Global Educ	Avail date
A62	9486-K1U		Athlon X2 5400B	2.8	Dual	2GB	250GB ²	DVD±RW	3100	VGA, DVI-D	XP Pro	Educ	Jul 09
A62	9486-J9U		Phenom X3 8600B	2.3	Triple	2GB	250GB	DVD±RW	3100	VGA, DVI-D	XP Pro	Educ	Jul 09

• These models have a 3-year limited warranty

Positioning Processor	Stability and manageability for large enterprise and mid-man AMD® Athlon™ X2 Dual-Core Processor 5400B with dual-core, virtualization technology, integrated DDR2 memorated processor and 1MB dedicated L2 cache or AMD Phenom™ X3 Triple-Core Processor 8600B with triple-core, virtualization technology, integrated DDR2 memorated processor in Socket AM2 or AM2+	ory	• 331mm W 2 • 19.4lb (8.8k • Toolless co	16.2" D X 4.1" H X 412mm D X 104mm H Bkg) in typical configuration			
Memory	2GB std, 8GB max ⁸ , PC2-6400 800MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM socket Non-italics: standard memory in one socket; three sockets a		• Toolless ad Bay ① 5.25",				
Graphics	ATI™ Radeon™ 3100, integrated graphics in 780V, uses ma memory (up to 512MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundVie supports dual independent display; supports up to 4 independent display; supports adapter	ew™,	Bay ③ 3.5", * supports re Slot 1: Low P Slot 2: Low P				
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive Media reader	250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening moun Serial ATA, SATA 3.0Gb/s, integrated in SB700, RAID 0/1 su Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Two SATA cables (each 1-drop to device), four SATA connect None None None None	pport	Slot 4: Low P	Security chip One lock to seentire system			
Chipset	AMD 780V Chipset with HyperTransport™ 3.0 and PCI Exp SB700 south bridge for SATA 3.0Gb/s with RAID 0/1 support PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O	t, ATA-133		Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password			
	Two USB 2.0, microphone (stereo, 3.5mm), headphone (ste Six USB 2.0, serial (9-pin), parallel (25-pin), keyboard (PS/2 ethernet (RJ-45), monitor (VGA DB-15, DVI-D) Two USB 2.0 planar conn (1 used; one open for media read Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphor High Definition (HD) Audio, Realtek® ALC662 codec One internal speaker for business audio Gigabit ethernet on planar, Marvell® 88E8070, Wake on LAN None Winbond WPCT200 SafeKeeper™ Trusted Platform Module,	(PS/2), ar USB ports) reo, 3.5mm)	SB ports) 3.5mm) Boot without keyboard, mouse, dis Serial port I/O control Parallel port I/O control Individual USB port disablement				
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, bla Optical Wheel Mouse (USB connector), 400dpi, black, Leno	o® logo	Supports Think\	/antage® technologies			
Preloaded oper	220 watts with variable speed fan, manual switch ating system ²⁰ Accessories			GREENGUARD® certified RoHS-compliant			
	ows® XP Professional 1GB PC2-6400 DDR2 UDIMM		41U2977	Lim	ited Warranty ¹		

(preinstalled via downgrade rights in Windows Vista® Business)

Preloaded applications⁵

- Education software
- VitalSource™ Library School Edition

- VitalSource™ Library School Edit
 Adobe® Elements
 Photoshop Elements 6
 Premiere Elements 4
 Rescue and Recovery™
 Client Security Solution™
 ThinkVantage Productivity Center
 ThinkVantage System Update
 McAfee® VirusScan® Plus
 (30 days of virus definitions)

- (30 days of virus definitions) Lenovo System Toolbox
- Adobe Reader®
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
 Corel® WinDVD® (DVD±RW)

2GB PC2-6400 DDR2 UDIMM 41U2978 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm) 41N3015 43R1990 Super Multi-Burner DL DVD±RW SATA Drive 41N5620 ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 More accessories on O-A62 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

Limited Warranty

- 3-year parts and labor
- International Warranty Service⁹
 Customer Replaceable Unit (CRU)
- parts only (with limited onsite service for selected parts³, 8 am 5 pm, Mon Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) 3-year LOR 24x7, 4 hour response
 - (ThinkPlus part number 45K5956)
 - 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958)
 - 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959)
- ThinkPlus services at
- lenovo.com/thinkplus/warranty
- 24 hour x 7 day14 toll-free support during the warranty period1 via 800-426-7378

Name Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	SATA optical	Graphics	Monitor connectors	Vista preload	Global Educ	Avail date	
A62 9486-E6U A62 9486-A4U A62 9486-H9U A62 9486-H8U A62 9486-H7U A62 9486-H6U A62 9486-A3U A62 9486-A1U A62 9486-A2U	4x3 4x3 4x3 4x3 4x3 4x3 4x3 14x3 14x3 14	Sempron LE-1300 Athlon 1640B Athlon X2 4450B Athlon X2 4450B Athlon X2 4450B Athlon X2 4450B Athlon X2 4450B Athlon X2 5000B Athlon X2 5400B Phenom X3 8600B ese models have a 3	2.8 2.3	Single Single Dual Dual Dual Dual Dual Triple	1GB 2GB 1GB 1GB 1GB 2GB 2GB	160GB ² 160GB 160GB 160GB 160GB 160GB 160GB 160GB	DVD±RW DVD DVD±RW DVD±RW DVD DVD±RW DVD±RW DVD±RW DVD±RW DVD±RW	3100 3100 3100 3100 9300GE 3100 3100	VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D DVI-I VGA, DVI-D VGA, DVI-D VGA, DVI-D	Business32 Business32 Business32 Business32 Business32 Business32 Business32 Business32 Business34	Educ Educ	Sep 08 Sep 08 Sep 08 Sep 08 Sep 08 Sep 08 Sep 08 Sep 08 Sep 08	
Positioning Processor	integra AMD a technol AMD a with d control AMD b triple- control	ity and manageability and manageability and Procesated DDR2 memory Athlon™ Processor ology, int DDR2 med Athlon X2 Dual-Colual-core, virtualization phenom™ X3 Triplocore, virtualization oller, 1.5MB dedications sor in Socket AM2	ssor Li control or 1640 mory co ore Pro- tion tec cated L2 e-Core technoled L2 c	E-1300 Iller, and B with sontroller cessor hnology cache Proces logy, in ache ai	with sing d 512KB single-corr, and 512 4450B, 5 y, integrate or ssor 8600 tegrated I	le-core, L2 cache e, virtua 2KB L2 c 5000B, o ed DDR DB with DDR2 m	e or lization ache or r 5400B 2 memory	331mm W19.4lb (8.8Toolless coToolless diToolless ao	16.2" D X 4.1 X 412mm D Bkg) in typical over removal sk, diskette d dapter retention, 1, 1.6" high, a	X 104mm H configuration rive, optical dri on ccess, std c	optical		
Memory	Italics Non-it	talics: standard mei	mory in mory in 7MHz [two so one so DR2 , r	ckets; two cket; thre non-parity	Bay ③ 3.5", * supports re Slot 1: Low Slot 2: Low							
Graphics	Some	one DVI-I connector (includes DVI-to-VGA dongle), S-Video out for TV-out, HDCP, DirectX 10, 30 watts • One lock to secure both cover and entire system to fixed object: - Padlock loop (in rear for opt padlock)											
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive Media reader	Serial Some Some	B, SATA 3.0Gb/s 72 ATA, SATA 3.0Gb/s : DVD-ROM DL SA : Super Multi-Burn ATA cables (each 1	, integr TA 1.50 er DL D	ated in Gb/s 16 VD±RV	lanar	 Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard, mouse, diskette Serial port I/O control Parallel port I/O control 							
Chipset	SB700	780V Chipset with 0 south bridge for S .3, USB, LPC bus /	aťà 3.0)Gb/ṡ w	ith RAID	0/1 supp	ort, ATA-133		Individual USB port disablement				
Front ports Rear ports	Six US etherr <i>H6U:</i>	ISB 2.0, microphone SB 2.0, serial (9-pinet (RJ-45), monitor (DVI-I), (), paral S-Video	lel (25- out;	nm), head pin), keyb	phone (social)	stereo, 3.5m 5/2), mouse	m) (PS/2),	- ''	hinkVantage® t IARD® certified pliant		gies	
Rear audio ports Audio Speaker Ethernet Modem Security chip Keyboard Mouse	H6U: monitor (DVI-I), S-Video out; Others: monitor (VGA DB-15, DVI-D) rnal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB por used to the port of th									·			
some listed) • Some: Educa	ating s ne Winders 32 ne Winders 64 n logo ication tion sof Library nents Element	dows® Vista® dows Vista s⁵ (all OSes; only itware y School Edition nts 6 ss 4	Acce 1GB 2GB 1GB 2GB DVD Supe ATI F More	PC2-5; PC2-5; PC2-6; PC2-6; PC2-6; ROM [er Multi- Radeon er acces; Guide in	s 300 CL5 I 300 CL5 I 400 DDR: 400 DDR: DL SATA -Burner D HD 3470 sories on	DDR2 UI DDR2 UI 2 UDIMN 2 UDIMN 1.5Gb/s IL DVD±I 0 256MB O-A62 s	DIMM /I /I 16-48X Max RW SATA DI (DP, VGA)	rive 41N5620 45K1636 sguide	(in eligil 3-year (Think 3-year (Think 4-year (Think 4-year (Think 4-year (Think 4-year (Think 2-yea	ole locations): ⁷ r LOR 9x5, 4 he in Plus™ part nun r LOR 9x5, 4 he in Plus part numb r LOR 9x5, Nex in LOR 9x5, 4 he in LOR 9x5, 4 he in LOR 24x7, 4 he in Plus part numb r LOR 24x7, 4 he in	pur responder 45K59 nour responder 45K59 tt Businet er 45K59 our responder 45K59 nour responder 45K59 varranty ree supp	onse 5955) oonse 56) ss Day 57) onse 58) oonse 59)	

Name Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	SATA optical	Integrated graphics		ENERGY STAR 5.0	Preload	Global Educ	Ava dat
A62 7057-B5U A62 7057-B6U A62 7057-B7U A62 7057-B8U A62 7057-A3U A62 7057-BBU A62 7057-A2U A62 7057-A2U	4x3 4x3 4x3 4x3 4x3 4x3 4x3	Athlon X2 5000B Athlon X2 5000B Athlon X2 5400B Phenom X3 8450 Athlon 1640B Athlon X2 4450B Athlon X2 5000B Phenom X3 8600B		Dual Dual Triple	2GB 1GB 1GB 1GB 1GB 2GB	160GB ² 160GB 250GB 160GB 160GB 160GB 160GB 160GB	DVD DVD±RW DVD±RW DVD DVD DVD DVD DVD+RW DVD±RW DVD±RW	3100 3100 3100 3100 3100 3100 3100 3100	VGA, DVI-E VGA, DVI-E VGA, DVI-E VGA, DVI-E VGA, DVI-E VGA, DVI-E VGA, DVI-E VGA, DVI-E	None None None None None None None None	XP Pro XP Pro XP Pro XP Pro Bus32 Bus32 Bus32 Bus64	None None None None None None None	Sep 08 Sep 08 Sep 08 Sep 08 Sep 08 Sep 08 Dec 08
Positioning Processor	techn AMD with control AMD triple control	**Mility and manageabit* ** Athlon™ Process* nology, int DDR2 me Athlon X2 Dual-Ci dual-core, virtualizator Phenom™ X3 Tripte-core, virtualizatior oller, 1.5MB dedicatessor in Socket AM2*	emory of ore Pro- ation te cated L le-Core technic ted L2	loB with controlled chnolog 2 cach e Proce ology, in cache a	n single-cer, and 51 r 4450B, gy, integra e or essor 849 ntegrated	core, virtu 12KB L2 (5000B, (ated DDF 50 or 860 1 DDR2 m	alization cache or or 5400B 32 memory 0B with nemory	• 13.0" • 331m • 19.4lk • Toolle • Toolle	ess black co W X 16.2" I m W X 412r o (8.8kg) in t ess cover rer ess disk, disk	0 X 4.1" H nm D X 104 ypical confi noval cette drive,	guration	opti disk	
Memory	IGB Italics Non-I Other Axx:	or 2GB std , 8GB m	nax ⁸ , for mory in mory in Hz DDI Hz DDI tegrate	ur 240- n two so n one so R2 , non R2 , non	ockets; twocket; thr -parity, d -parity, d nics in 78	o socket ee socke ual-chani ual-chani 0V, uses	s available; ts available nel capable nel capable main	Bay ① Bay ② Bay ③ Start Support	ess adapter retention 5.25", 1.6" high, access, std optical 3.5", 1" high, access, open* 3.5", 1" high, no access, std disk orts reader/diskette/2nd disk Low Profile, PCI Express 2.0 x1 Low Profile, PCI Express 2.0 x16 (35w max)				ax)
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive Media reader	suppo monit 160G Seria Some Some) }	ent disp ual-hea 3.0Gb/ s, integ ATA 1.5 er DL I	olay; sup d ATI go /s 7200 grated in Gb/s 10 DVD±R	oports up raphics a rpm, vib n SB700, SX-48X N W SATA	to 4 inded dapter ration dar RAID 0/1 //ax4 Drive 1.5Gb/s [ependent mpening mo support e Orive	ounts	• On ent - P - S K • Por • Ad		Security (see information both to fixed obth to fixed obth (in rear formation for formation) MicroSav sword password	cover a oject: or opt pa or option	nd (adlock) al
Chipset Front ports Rear ports	SB70 PCI 2 Two U Six U	780V Chipset with 00 south bridge for \$ 2.3, USB, LPC bus / JSB 2.0, microphon ISB 2.0, serial (9-pir net (RJ-45), monito	SATA 3. Winbo ne (ster n), para	.0Gb/s ond® W8 eo, 3.5r allel (25	with RAID 3627DH nm), hea -pin), key	0 0/1 supp G Super dphone (oort, ATA-13 I/O stereo, 3.5	33 EİDE, Ö mm)	• Bo • Bo • Se • Pa	ot sequence ot without k rial port I/O rallel port I/ ividual USE	e control eyboard, control O control		
Internal connecto Rear audio ports Audio Speaker Ethernet	r Two l Line-i High One i	JSB`2.0 planar coning (stereo, 3.5mm), Definition (HD) Aud internal speaker for bit ethernet on plana	n (1 use line-ou lio, Rea busine	ed; one t (stere altek® A ess audi	open for o, 3.5mm LC662 co o	i), microp odec	hone-in (st	ereo, 3.5ṁ	nm) Supp GRE	orts Think\ ENGUARD S-compliant	® certified	echnolo	gies
Modem Security chip Keyboard	None Winb		Keepe	r™ Trus	ted Platf	orm Mod	ule, TCG 1.	2-complia		Limi	ited Warra	anty ¹	
downg Vista® - Some: Genuir Busine - Some: Genuir Busine - Vista models: Preloaded appli some listed) • Rescue and R • Client Security • ThinkVantage • McAfee® Virus	ating s ne Win sional rade ri Busine ne Win ess 32 ne Win ess 64 Vista l icatior cover y Soluti Produc Scan®	dows® XP (preinstalled via ghts in Windows ess) dows Vista dows Vista Premium logo ns⁵ (all OSes; only ry™ ion™ ctivity Center	Acc 1GE 2GE 1GE 2GE 500 DVL Sup ATI Mor	essoria 3 PC2-5 3 PC2-6 3 PC2-6 3 PC2-6 GB SA 2-ROM per Mult Radeon re acces Guide	es 6300 CL5 6300 CL5 6400 DDI 6400 DDI 64 3.0Gb DL SATA i-Burner in HD 347 esories o in pdf ler	60% PS 5 DDR2 U 5 DDR2 U R2 UDIM R2 UDIM /s Disk (7 1.5Gb/s DL DVD± 10 256ME n O-A62	DIMM IDIMM M M'200 rpm) 16-48X Ma RW SATA I	73P4 41U2 41U2 43R 43R 41N! Drive 41N! 45K	4984 4985 2977 2978 1990 5618 5620 1636	ternational ustomer Re irts only (w r selected p on - Fri covext busines neite service neligible lo 3-year LOF (ThinkPlus 3-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus set novo.com/the	placeable ith limited oarts³, 8 ai erage exc s day resp e upgrade cations): 7 4 hc M part numb d 24x7, 4 h part numb d 9x5, Nex part numb d 24x7, 4 h part numb d 24x7, 4 h part numb rvices at hinkplus/w	Unit (CI onsite : m - 5 pm - 5 pm - 1 pm - 5 pm - 1	RU) service i, ioliday: ne) s onse 5955) oonse 956) ss Day 957) onse 958) oonse

Name Type-model	Slot x AMD bay processor	GHz Core I	SATA Memory [®] disk	2nd Dis	k SATA optical	Graphic	Monitor s connectors	Preload	Global Educ	Avai
A62 9485-E4U A62 9485-E5U A62 9485-E7U A62 9485-E8U A62 9485-E8U A62 9485-E9U A62 9485-F1U A62 9485-F2U A62 9485-H8U	4x5 Athlon 1640B 4x5 Athlon X2 5000B 4x5 Athlon X2 5000B 4x5 Athlon X2 5000B 4x4 Athlon X2 5000B 4x4 Athlon X2 5400B 4x5 Athlon X2 5400B 4x5 Phenom X3 8450 4x5 Phenom X3 8450 4x5 Phenom X3 8600B • These models have a	2.7 Single 2.6 Dual 2.6 Dual 2.6 Dual 2.8 Dual 2.8 Dual 2.1 Triple 2.1 Triple 3 2.3 Triple	1GB 160G 1GB 160G 1GB 160G 2GB 160G 2GB 250G 1GB 250G 1GB 160G 2GB 160G 2GB 160G	B ² Bay B Bay B Bay B Bay B Bay B Bay B Bay B Bay	DVD DVD DVD±RW DVD±RW DVD DVD±RW DVD DVD±RW DVD DVD±RW DVD DVD±RW DVD	3100 3100 / 3100 / 3100 3100 / 3100 3100 / 9300GI	VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	None None None None None None None None	Sep 0 Sep 0 Sep 0 Sep 0 Sep 0 Sep 0 Sep 0 Jun 0
Positioning Processor Implementation Memory	Non-italics: standard me	sor 1640B with emory controlled core Processor ation technologicated L2 cache of technology, in ated L2 cache at 2 or AM2+ max ⁸ , four 240-pemory in two so	n single-core, ver, and 512KB ref. and 512KB ref. and 512KB ref. and 512KB ref. and 2MB share on DIMM sockets; two sockets; three so	virtualizat L2 cache OOB DDR2 me 8600B wi 2 memor d L3 cac tets; ckets avai ckets avai	or or or or or or or or or or or or or o	75mm W X 4.2lb (11.0 landle on to colless covered to colless distributed the ptical drive colless add y ① 5.25", y ② 5.25",	.3" D X 15.8" H 440mm D X 402 kg) in typical con pp front er removal k, diskette drive, removal apter retention 1.6" high, access 1.6" high, access	figuration s, std o		
Graphics		M 3100, int grap 512MB), one a n, DirectX® 10, ndependent dis potional dual-he rce® 9300 GE, talog VGA DB-1	non-parity, du phics in 780V, nalog VGA DE ATI Avivo™, S splay; supports ad ATI graphic PCI Express® 15 conn via ca	al-channe uses mair 3-15 conn urroundV up to 4 es adapte x16 adap ble, one [ector, iew TM , Slo Slo Slo Slo Slo Slo Slo Slo Slo Slo	ot 1: half-lei ot 2: half-lei ot 3: half-lei	1" high, no acc y is only available ngth,full-height, F ngth,full-height, F ngth,full-height, 3 ngth,full-height, 3	ess, std diess, opt de on some PCle 2.0 x PCle 2.0 x PCle 2.0 x	isk isk* models 1 16 (75w 2.3	
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive Media reader Chipset	160GB or 250GB, SATA Serial ATA, SATA 3.0Gb Some: DVD-ROM DL S Some: Super Multi-Bur Two SATA cables (each None None None None	A 3.0Gb/s 7200 /s, integrated in BATA 1.5Gb/s 10 ner DL DVD±R' 1-drop to devic	rpm, vibration SB700, RAID 6X-48X Max ⁴ W SATA 1.5GI re), four SATA	dampeni 0/1 supp Drive o/s Drive connecto	ng mounts ort rs on plana	ar	Security chip One lock to se entire system Padlock loop Security slot Kensington® Power-on pas Administrator Hard disk pas	ecure both to fixed ob o (in rear for t (in rear for Microsav sword password	cover a oject: or opt pa or option er® cable	nd adlock) al
Front ports Rear ports	SB700 south bridge for PCI 2.3, USB, LPC bus Two USB 2.0, micropho Six USB 2.0, serial (9-p	/ Winbond® W8 ne (stereo. 3.5r	3627DHG Su mm). headpho	per I/O ne (stere	o. 3.5mm)		 Boot sequence Boot without keep serial port I/C Parallel port I/C Individual USI 	eyboard, control O control	,	
nternal connecto Rear audio ports	ethernet (RJ-45), F2U: monitor (VGA I Others: monitor (VGA I r Two USB 2.0 planar cor Line-in (stereo, 3.5mm),	DB-15, DVI-Ď) nn (1 used; one	open for med	a reader	or 2 rear U in (stereo	JSB ports)	Supports Think\ GREENGUARD RoHS-complian	® certified		gies
Audio Speaker Ethernet Modem Security chip Keyboard Mouse	High Definition (HD) Au One internal speaker for Gigabit ethernet on plar None Winbond WPCT200 Sat Preferred Pro USB Keyt Optical Wheel Mouse (L	dio, Realtek® Al r business audi nar, Marvell® 88 eKeeper™ Trus poard (USB cor JSB connector)	LC662 codec o E8070, Wake ted Platform M nector), 104-h , 400dpi, black	on LAN®, lodule, Totey, black	ASF 2.0 CG 1.2-cor	mpliant	Limi 3-year parts International Customer Re parts only (w	ited Warra and labor Warranty placeable ith limited parts ³ , 8 ai	Service ⁹ Unit (CF I onsite 9 m - 5 pm	RU) service ,
(preinstalled v Windows Vista Preloaded appl • Rescue and F • Client Security • ThinkVantage • McAfee® Virus • Adobe® Reade • Microsoft® Off • Roxio® Creato (DVD±RW) • Roxio MvDVD	ows® XP Professional ia downgrade rights in Business) ications⁵ (only some liste ecovery™ / rSolution™ Productivity Center Scan® Plus (30-day) er® ice 2007 Trial (60-day) r® Business Edition	Accessorie 1GB PC2-5 2GB PC2-6 2GB PC2-6 2GB PC2-6 500GB SAI DVD-ROM Super Multi ATI Radeor NVIDIA® Go More acces Acc Guide		I2 UDIMN DIMM IV (7200 r Ib/s 16-48 VD±RW S SMB (DP, GT 512MI 62 sheet com/acce	pm) 3X Max 5ATA Drive VGA) B (DP, DVI)	45K1636)45K1635 ide	Mon - Fri cov next busines onsite servic (in eligible lo 3-year LOF (ThinkPlus' 3-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 4-year LOF (ThinkPlus 5-year	s day respect upgrade cations):7 16 9x5, 4 ho mart number 24x7, 4 h part number 39x5, Next 19x5, Next 19x5, 4 ho part number 24x7, 4 h part number 19x5, 4 ho pa	oonse tine options our responser 45K5 our responser 45K59 t Busine er 45K59 our responser 45K59 our responser 45K59 our responser 45K59 our responser 45K59 arranty ee supp	ne) 5 5 5955) 60nse 56) 557) 60nse 58) 60nse 59)

Name Type-model	Slot x AMD bay processor	GHz Core Me		2nd Disk Bay	SATA optical	Graphics	Monitor connectors	Vista preload	Global Educ	Avai date
A62 9485-F8U A62 9485-H1U A62 9485-E2U	4x5 Athlon 1640B 4x4 Athlon X2 4450B 4x5 Athlon X2 4450B 4x4 Athlon X2 4450B 4x4 Athlon X2 5000B 4x4 Athlon X2 5400B 4x5 Phenom X3 8600B • These models have a 3	2.3 Dual 1 2.3 Dual 1 2.3 Dual 2 2.6 Dual 1 2.8 Dual 2 2.3 Triple 2	GB 160GB ² GB 160GB GB 160GB GGB 160GB GGB 160GB GGB 160GB GGB 160GB GGB 160GB	Bay Bay Bay	DVD DVD DVD±RW DVD±RW DVD±RW DVD±RW DVD±RW	3100	VGA, DVI-D VGA, DVI-D VGA, DVI-I VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D	Bus32 Bus32 Bus32 Bus32 Bus32 Bus64	Educ	Sep 08 Sep 08 Sep 08 Sep 08 Sep 08 Sep 08
Positioning Processor	Stability and manageabilit AMD® Athlon™ Process technology, int DDR2 mer AMD Athlon X2 Dual-Co with dual-core, virtualizat controller, and 1MB dedic AMD Phenom™ X3 Triple triple-core, virtualization controller, 1.5MB dedicate Processor in Socket AM2	or 1640B with sinory controller, are Processor 4 ion technology, ated L2 cache cachenology, intended L2 cache and L2 cache and L2 cache and	ingle-core, virtuand 512KB L2 450B, 5000B, integrated DDI or sor 8600B with grated DDR2 r	ualization cache o or 5400 l R2 mem	• 6.9' • 175 • 24.: • Har • Too • Too opti	siness blace. W X 17.3 mm W X 42lb (11.0kg) adle on top lless cove lless disk, cal drive r	t" D X 15.8" H 440mm D X 402 g) in typical conf o front r removal diskette drive,		optio ② ③ disk	
Memory	Non-italics: standard mer Fxx/H1U: PC2-5300 66	nory in two sock nory in one sock	kets; two socke ket; three socke on-parity, dual-c	ts availa ets availa channel;	ble; Bay (able; Bay (Bay (Bay (5.25", 1	6" high, access, 6" high, access, ' high, access, ' high, no acce	open	ptical (reader/isk	/diskette
Graphics	Some: ATI™ Radeon™: memory (up to 5 one DVI-D conn, supports dual inc monitors with opt NVIDIA® GeForc 256MB, one anal conn, S-Video ou	12MB), one ana DirectX® 10, AT lependent displational dual-head ee® 9300 GE , PC og VGA DB-15	llog VGA ĎB-1! I Avivo™, Surra ay; supports up I ATI graphics a CI Express® x1 conn via cable	5 connection of the condition of the con	totor, w TM , Slot 2 Slot 3 Slot 3 Slot 4 Slot 4	Disk Bay : half-leng : half-leng : half-leng	is only available yth,full-height, P yth,full-height, P yth,full-height, 3: yth,full-height, 3:	on some Cle 2.0 x Cle 2.0 x 2-bit PCI	models 1 16 (75w 2.3	
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive Media reader	160GB, SATA 3.0Gb/s 72 Serial ATA, SATA 3.0Gb/s Some: DVD-ROM DL SA Some: Super Multi-Burne Two SATA cables (each 1- None None None None	, integrated in S TA 1.5Gb/s 16X er DL DVD±RW	B700, RAID 0/ -48X Max⁴ Driv SATA 1.5Gb/s	1 suppor ⁄e Drive			Security chip (One lock to se entire system i - Padlock loop - Security slot Kensington® Power-on pass Administrator i	cure both to fixed ol (in rear fo (in rear fo MicroSav sword	ocover a bject: or opt pa or option ver® cabl	nd adlock) al
Chipset Front ports	AMD 780V Chipset with SB700 south bridge for SAPCI 2.3, USB, LPC bus / Two USB 2.0, microphone	ATA 3.0Gb/s with Ninbond® W836	h RAID 0/1 sup 27DHG Super	port, AT/	A-133 ÉÍDE	rt; =,	Hard disk pass Boot sequence Boot without ke Serial port I/O Parallel port I/O	sword e control eyboard, control		diskette
Rear ports	Six USB 2.0, serial (9-pin) ethernet (RJ-45), F8U: monitor (VGA DE Others: monitor (VGA DE), parallel (25-pii 3-15, DVI-I), S-V	n), keyboard (F),	Individual USE Supports ThinkV	port disa		
Internal connector Rear audio ports Audio	Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audio	(1 used; one op ne-out (stereo, 3 o, Realtek® ALC	3.5mm), micror	eader or ohone-in	2 rear US (stereo, 3.	B ports) – 5mm) (GREENGUARD®	certified		9.00
Speaker Ethernet Modem	One internal speaker for be Gigabit ethernet on plana None Winbond WPCT200 Safel	r, Marvell® 88E8	•	-		dient	Limit ⇒ 3-year parts a	ted Warra	anty¹	
Security chip Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable sp	ard (USB conne B connector), 4	ector), 104-key, 00dpi, black, L	black, L	enovo® log	———————————————————————————————————————	 International V Customer Reparts only (wifer selected p 	olaceable th limited	Unit (CI I onsite	RU) service
Busine - Some: Genuir Busine	ne Windows® Vista® ss 32 ne Windows Vista ss 64 n logo cations⁵ (all OSes; only tion software Library School Edition nents Elements 6 lements 4 ® Business Edition	2GB PC2-530 1GB PC2-640 2GB PC2-640 500GB SATA : DVD-ROM DL Super Multi-Br ATI Radeon H NVIDIA® GeFo More accesso Acc Guide in p	0 CL5 DDR2 L 0 CL5 DDR2 L 0 DDR2 UDIM 0 DDR2 UDIM 0 DDR2 UDIM 1. SATA 1.5Gb/s urner DL DVD 1. 3470 256ME price® 9500GT ries on O-A62 odf lenovo.cor pries at lenovo	JDIMM M M 7200 rpn 516-48X ERW SA 3 (DP, VC 512MB (sheet n/access	73 41 41 41 60 60 60 61 60 61 61 61 61 61 61 61 61 61 61 61 61 61	P4985 U2977 U2978 BR1990 N5618 N5620 K1636 K1635	Mon - Fri cover next business Onsite service (in eligible loc 3-year LOR (ThinkPlus properties) 4-year LOR (ThinkPlus properties) 4-year LOR (ThinkPlus properties) 4-year LOR (ThinkPlus properties) ThinkPlus sellenovo.com/troperties 24 hour x 7 deduring the was via 800-426-73	s day respected and services at large set upgrade set ions):7 9x5, 4 ho ext number 9x5, Nex services at number 124x7, 4 hoart number	ponse tire options our respender 45K9 our resper 45K59 our resper 45K59 our resper 45K59 our resper 45K59 our resper 45K59 our resper 45K59 our resper 45K59	ne) s onse 5955) oonse 56) ss Day 57) oonse 58) oonse 59)

Name Type-model	Slot x AMD bay processor	GHz Core Memo		2nd Dis Bay	k SATA optical	Graphics	Monitor connectors	ENERGY STAR 5.0		Global	Avai date
A62 9625-B5U A62 9625-B6U A62 9625-B7U A62 9625-B9U A62 9625-B8U A62 9625-A3U A62 9625-D2U A62 9625-A2U	4x4 Athlon X2 5000B 4x4 Athlon X2 5000B 4x4 Athlon X2 5400B 4x4 Athlon X2 5400B 4x4 Phenom X3 8450 4x5 Athlon 1640B 4x4 Athlon X2 4450B	2.6 Dual 1GE 2.6 Dual 2GE 2.8 Dual 2GE 2.8 Dual 2GE 2.1 Triple 2GE 2.7 Single 1GE 2.3 Dual 1GE 2.6 Dual 1GE 2.3 Triple 2GE	3 160GB ² 3 160GB 3 250GB 3 160GB 3 160GB 3 160GB 3 160GB 3 160GB 3 160GB	Bay Bay	DVD DVD±RW DVD±RW DVD±RW DVD DVD DVD±RW DVD±RW DVD±RW	3100 3100 3100 9300GE 3100 3100 3100 3100	VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-I VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D VGA, DVI-D	None None None None None None	XP Pro XP Pro XP Pro XP Pro XP Pro Bus32 Bus32 Bus32 Bus64	None None None None None None None	Sep 08 Sep 08 Sep 08
Positioning Processor Implementation Memory	Stability and manageability and manageability and manageability AMD® Athlon™ Process technology, int DDR2 merity AMD Athlon X2 Dual-Cowith dual-core, virtualization controller, and 1MB dedicated AMD Phenom™ X3 Triplitriple-core, virtualization controller, 1.5MB dedicated Processor in Socket AM2 1GB or 2GB std, 8GB mathle in the interior in the in	or 1640B with simory controller, a pre Processor 44 tion technology, in ated L2 cache on e-Core Processor technology, integed L2 cache and or AM2+ ax8, four 240-pin mory in two sock mory in one sock tz DDR2, non-pa	ngle-core, Ind 512KB 150B, 500 Integrated or 8450 or Irated DDI 2MB shar DIMM soc ets; two so et; three sirity, dual-o	virtual L2 ca OB, or DDR2 8600E R2 mel ed L3 ckets; ockets a ockets channe	ization che or 5400B memory 3 with mory cache available; available; capable;	• 175mm W • 24.2lb (11 • Handle or • Toolless or • Toolless d • Toolless a Bay ① 5.25 Bay ② 5.25 Bay ③ 3.5" Bay ④ 3.5"	17.3" D X 15 / X 440mm E .0kg) in typic of front over removal lisk, diskette ve removal dapter reten [5", 1.6" high, 5", 1" high, 5	O X 402m cal config I drive, tion access, access, access, no acces	std opt open open (s, std dis	reader/	
Graphics	Some: ATI™ Radeon™ memory (up to 5 one DVI-D conn, supports dual in monitors with op NVIDIA® GeFort 256MB, one ana	3100, int graphic 12MB), one anal DirectX® 10, ATI dependent displa tional dual-head	s in 780V, og VGA D Avivo™, S y; support ATI graphi I Express conn via ca	uses r B-15 c Surrour s up to cs ada * x16 a able, or	nain onnector, ndView™, 4 pter dapter, ne DVI-I	Slot 1: half- Slot 2: half- Slot 3: half- Slot 4: half-	, 1" high, Bay is only av length,full-he length,full-he length,full-he ome models	eight, PC eight, PC eight, 32-	n some r le 2.0 x1 le 2.0 x10 bit PCI 2.	models 6 (75w r .3	max)**
SATA disk SATA controller SATA DVD SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive Media reader	160GB or 250GB, SATA 3.0Gb/s Serial ATA, SATA 3.0Gb/s Some: DVD-ROM DL SA Some: Super Multi-Burne Two SATA cables (each 1 None None None None None	s, integrated in SE FA 1.5Gb/s 16X-4 er DL DVD±RW S	3700, RAII I8X Max⁴ I ATA 1.5Gl	D 0/1 s Drive b/s Driv	upport re		- Padlo - Secu Kensi	y chip (seck to secu system to lock loop (i rity slot (in ngton® M	ure both of fixed objoin rear for hear for hear for hear for hear for hear for hear for hear for hear for hear for hear for hear for hear hear hear hear hear hear hear hea	cover ar ect: r opt pa r optiona	nd (dlock) al
Chipset Front ports Rear ports	AMD 780V Chipset with SB700 south bridge for S PCI 2.3, USB, LPC bus / Two USB 2.0, microphone Six USB 2.0, serial (9-pin	ATA 3.0Gb/s with Winbond® W8362 e (stereo, 3.5mm	RAID 0/1 27DHG Su), headpho	suppo uper I/C one (st	rt, ATA-133) ereo, 3.5m	BĖÍDE, m)	Hard diBoot seBoot wi	sk passwequence of thout key port I/O co port I/O	ord control board, m ontrol control		
Internal connecto	ethernet (RJ-45), B9U: monitor (VGA D Others: monitor (VGA D r Two USB 2.0 planar conr	B-15, DVI-D)		lia read	der or 2 rea	ar USB ports	Supports				
Rear audio ports Audio Speaker	Line-in (stereo, 3.5mm), I High Definition (HD) Audi One internal speaker for	ine-out (stereo, 3 o, Realtek® ALC6 business audio	.5mm), mi 662 codec	cropho	ne-in (ster	eo, 3.5mm)			certified		
Ethernet Modem Security chip	Gigabit ethernet on plana None Winbond WPCT200 Safe	Keeper™ Trusted	Platform	Module	e, TCG 1.2-	compliant		parts an	arranty S	ervice ⁹	
Keyboard Mouse Power supply	Preferred Pro USB Keybo Optical Wheel Mouse (US 280 watts with variable sp	SB connector), 40)0dpí, blac	k, Ĺen		u- iugo	for sel	only (with ected par	limited orts ³ , 8 am	onsite s · - 5 pm,	ervice
downg Vista® - Some: Genuir Busine - Some: Genuir Busine † Vista models:	ne Windows® XP sional (preinstalled via rade rights in Windows Business) ne Windows Vista ss 32 ne Windows Vista ss 64 Vista Premium logo	Accessories 1GB PC2-5300 2GB PC2-5300 1GB PC2-6400 2GB PC2-6400 500GB SATA 3 Super Multi-BL ATI Radeon HI NVIDIA® GeFo	O CL5 DDR DDR2 UI DDR2 UI DOB/s Dis Irner DL D D 3470 25 rce® 9500 ies on O-A	R2 UDI DIMM DIMM sk (720 VD±R\ 6MB (I GT 512 A62 sh	MM 00 rpm) W SATA Dr DP, VGA) 2MB (DP, Deet	45K1636 3VI)45K1638	next b	gible loca par LOR 9 pakPlus™ par LOR 2 pakPlus pa par LOR 9 pakPlus pa par LOR 2	day responded tions):7 x5, 4 house the numbert number the number the number the number the number the number 4x7, 4 house the number	onse tim options or responser 45K5 our responser 45K598 our responser 45K598 our responser 45K598	ne) inse i955) onse inse i58) onse
some listed) • Roxio® Creato (DVD±RW) • Roxio MyDVD	ications ⁵ (all OSes; only r ⁶ Business Edition ⁸ (DVD±RW) D ⁵ (DVD, DVD±RW)	Acc Guide in p Other accesso					Other lenovo⇒ 24 hou during	.com/thin	s service kplus/wai ¹⁴ toll-free anty peri	s at rranty e suppo	·

Name Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Integrated graphics	Monitor connectors	Vista preload	Global (G) GMP (P)	Avail date
A62 7061-A1U	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB ²	None	DVD±RW	3100	VGA, DVI-D	Bus32	GΡ	Sep 08

• This model is part of the Global Models Plus (GMP) program with limited onsite service³ 3-year limited warranty

Positioning Processor	AMD® Athlon™ X2 Dual-0	y for large enterprise and mid-market Core Processor 5400B with dual-core, ntegrated DDR2 memory controller, che	• 175mm W X	lack color 7.3" D X 15.8" H X 440mm D X 402mm H Okg) in typical configuration
Memory		6400 800MHz DDR2, apable, four 240-pin DIMM sockets; ry in two sockets; two sockets available	Handle on tToolless coToolless dis	top front system to the state of the state o
Graphics	memory (up to 512MB), or one DVI-D connector, Dire supports dual independen	grated graphics in 780V, uses main ne analog VGA DB-15 connector, ctX® 10, ATI Avivo™, SurroundView™, t display; supports up to 4 independent I-head ATI graphics adapter	Bay ① 5.25", Bay ② 5.25",	apter retention 1.6" high, access, std optical 1.6" high, access, open 1" high, access, open (reader/diskette)
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port EIDE controller	Serial ATA, SATA 3.0Gb/s, Super Multi-Burner DL DV	00 rpm, vibration dampening mounts integrated in SB700, RAID 0/1 support D±RW SATA 1.5Gb/s Drive drop to device), four SATA connectors	Slot 2: half-le Slot 3: half-le	1" high, no access, sid disk ength, full-height, PCIe 2.0 x1 ength, full-height, PCIe 2.0 x16 (75w max) ength, full-height, 32-bit PCI 2.3 ength, full-height, 32-bit PCI 2.3
Diskette drive Media reader	None None			Security
Chipset	AMD 780V Chipset with H SB700 south bridge for SA	HyperTransport™ 3.0 and PCI Express® 2.0 NTA 3.0Gb/s with RAID 0/1 support, ATA-13 Vinbond® W83627DHG Super I/O		Security chip (see information on left) One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional
	Six USB 2.0, serial (9-pin) ethernet (RJ-45), monitor r Two USB 2.0 planar conn Line-in (stereo, 3.5mm), lin High Definition (HD) Audic One internal speaker for b Gigabit ethernet on planar None Winbond WPCT200 Safek Preferred Pro USB Keyboo	(1 used; one open for media reader or 2 rene-out (stereo, 3.5mm), microphone-in (stereo, 3.5	e (PS/2), ear USB ports) ereo, 3.5mm) 2.0 2-compliant	Kensington® MicroSaver® cable) • Power-on password • Administrator password • Hard disk password • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • Parallel port I/O control • Individual USB port disablement
Preloaded oper	• .	Accessories	44110077	Supports ThinkVantage® technologies
♦ Vista Premium Preloaded appl	ications ⁵	1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm)	41U2977 41U2978 41N3015 43R1990	GREENGUARD® certified RoHS-compliant
 ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi 	r Solutión™ Productivity Center System Update Scan® Plus us definitions) n Toolbox er® ce 2007 Trial (60-day) r® Business Edition	Super Multi-Burner DL DVD±RW SATÁ DATI Radeon HD 3470 256MB (DP, VGA) NVIDIA® GeForce® 9500GT 512MB (DP, More accessories on O-A62 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/acces	45K1636 DVI)45K1635 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service⁰ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 45K5957) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Name	Si Type-model b	lot x bay	AMD processor	GHz	Core	Memory ⁸				Integrated graphics	Monitor connectors	ENERGY STAR 5.0			
A62	3656-AAU 4	4x4	Athlon X2 5400B	2.8	Dual	2GB	160GB ²	None	DVD±RW	3100	VGA, DVI-D	None	Bus32	GP (Jan 09

• This model is part of the Global Models Plus (GMP) program with limited onsite service3 3-year limited warranty

Positioning Processor Implementation Memory	AMD® Athlon™ X2 Dual- virtualization technology, i and 1MB dedicated L2 ca Processor in Socket AM2 2GB std, 8GB max8, PC2	-6400 800MHz DDR2,	• 175mm W 2 • 24.2lb (11.0 • Handle on t	7.3" D X 15.8" H X 440mm D X 402mm H Okg) in typical configuration top front
	Italics: standard memory	apable, four 240-pin DIMM sockets; y in two sockets; two sockets available	Toolless disoptical drive	sk, diskette drive,
Graphics	memory (up to 512MB), o one DVI-D connector, Dire supports dual independer	egrated graphics in 780V, uses main ne analog VGA DB-15 connector, ectX® 10, ATI Avivo™, SurroundView™, it display; supports up to 4 independent al-head ATI graphics adapter	• Toolless ad Bay ① 5.25",	apter retention 1.6" high, access, std optical 1.6" high, access, open
SATA disk SATA controller SATA DVD±RW SATA cables eSATA port EIDE controller Diskette drive	Serial ATA, SATA 3.0Gb/s Super Multi-Burner DL DV	00 rpm, vibration dampening mounts, integrated in SB700, RAID 0/1 support /D±RW SATA 1.5Gb/s Drive drop to device), four SATA connectors	Slot 2: half-le Slot 3: half-le	1" high, no access, std disk ength, full-height, PCIe 2.0 x1 ength, full-height, PCIe 2.0 x16 (75w max) ength, full-height, 32-bit PCI 2.3 ength, full-height, 32-bit PCI 2.3 Security
Media reader Chipset	SB700 south bridge for SA	HyperTransport™ 3.0 and PCI Express 2.0 ATA 3.0Gb/s with RAID 0/1 support, ATA-13 Winbond® W83627DHG Super I/O	support; 33 EIDE,	Security chip (see information on left) One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock)
Front ports Rear ports Internal connector Rear audio ports Audio Speaker Ethernet Modem Security chip Keyboard Mouse Power supply	Six USB 2.0, serial (9-pin) ethernet (RJ-45), monitor Two USB 2.0 planar conn Line-in (stereo, 3.5mm), li High Definition (HD) Audio One internal speaker for be Gigabit ethernet on plana None Winbond WPCT200 Safel Preferred Pro USB Keybo Optical Wheel Mouse (US	(1 used; one open for media reader or 2 rone-out (stereo, 3.5mm), microphone-in (step), Realtek® ALC662 codec	e (PS/2), ear USB ports) ereo, 3.5mm) 2.0 2-compliant	- Security slot (in rear for optional Kensington® MicroSaver® cable) - Power-on password - Administrator password - Hard disk password - Boot sequence control - Boot without keyboard, mouse, diskette - Serial port I/O control - Parallel port I/O control - Individual USB port disablement
Preloaded opera	ating system ²⁰ ows® Vista® Business 32	Accessories 1GB PC2-6400 DDR2 UDIMM	41U2977	Supports ThinkVantage® technologies
♦ Vista Premium Preloaded appli	logo cations⁵	2GB PC2-6400 DDR2 UDIMM 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm)	41U2978 41N3015 43R1990	GREENGUARD® certified RoHS-compliant
 ThinkVantage ThinkVantage McAfee® Virus (30 days of vir Lenovo Syster Adobe® Reade Microsoft® Offi 	Solution™ Productivity Center System Update Power Manager Scan® Plus us definitions) n Toolbox ur® ce 2007 Trial (60-day) ® Business Edition	Super Multi-Burner DL DVD±RW SATÁ DATI Radeon HD 3470 256MB (DP, VGA) NVIDIA® GeForce® 9500GT 512MB (DP, More accessories on O-A62 sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/accessories	45K1636 DVI)45K1635 esguide	Limited Warranty¹ 3-year parts and labor International Warranty Service³ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 • 4-year LOR 9x5, Next Business Day (ThinkPlus™ part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

ThinkCentre® A62 Accessories

Partial list of accessories supported on ThinkCentre A62

M	em	orv	

1GB PC2-5300 CL5 DDR2 UDIMM⁴0	73P4984 ann 06/28/05
1GB PC2-5300 CL5 DDR2 UDIMM (25-Pack)	51J0501 ann 03/17/09
2GB PC2-5300 CL5 DDR2 UDIMM	73P4985 <i>ann 09/26/06</i>
2GB PC2-5300 CL5 DDR2 UDIMM (25-Pack)	51J0547 ann 03/17/09
1GB PC2-6400 DDR2 UDIMM	41U2977 ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549 <i>ann 03/17/09</i>
2GB PC2-6400 DDR2 UDIMM	41U2978 ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550 <i>ann 03/17/09</i>
40 When PC2-5300 is installed with systems that I	nave PC2-6400
memory, PC2-6400 will operate at the PC2-530	0 memory speed.

Optical

Optioni	
DVD-ROM DL SATA 1.5Gb/s 16X-48X Max4	41N5618 ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620 ann 09/26/06

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm) 250GB SATA 3.0Gb/s Disk (7200 rpm) 500GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254 ann 05/19/03 41N3015 ann 01/24/06 43R1990 ann 11/06/07
USB 2.0 Essential Memory Key 4GB USB 2.0 Essential Memory Key 8GB USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 1GB USB 2.0 Ultra Secure Memory Key 2GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Portable 320GB Hard Disk USB 2.0 Portable 500GB Hard Disk USB 2.0 Portable Secure 160GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Secure 500GB Hard Disk USB 2.0 Secure 500GB Hard Drive USB 2.0 Super Multi-Burner Drive USB 2.0 Portable DVD Burner	45J7904 ann 06/24/08 45J7905 ann 07/15/08 45K1258 ann 10/28/08 45J5915 ann 08/26/08 45J5917 ann 08/26/08 45J5918 ann 08/26/08 45K1689 ann 03/17/09 45K1690 ann 05/26/09 43R2019 ann 11/18/08 43R2019 ann 11/18/08 43R2019 ann 01/07/10 41N5565 ann 01/23/07 43N3264 ann 01/05/10

Graphics

Desktop 9486/7057/7062/3658/9945 support Low Profile 35 watts max: ATI™ Radeon™ HD 3470 256MB (DP, VGA) 45K1636 ann 11/18/08

Tower 9705/9935/9485/9625/7061/3656 support 75 watts max:

ATI Radeon HD 3470 256MB (DP, VGA) 45K1636 ann 11/18/08 NVIDIA® GeForce® 9500 GT 512MB (DP, DVI) 45K1635 ann 11/18/08

More information at www.lenovo.com/support/graphiccards

Kevboard

Preferred Pro USB Keyboard	73P5220 ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415 ann 06/04/02
Enhanced Performance USB Keyboard	73P2620 ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700 ann 09/15/09
Lenovo® USB Fingerprint Keyboard	73P4730 ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155 ann 03/24/09
52 Wireless via 2.4GHz technology using a micro	-size USB receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Lenovo Mini Optical Mouse - Black (USB)	55Y9308 ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309 ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405 ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074 ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696 ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198 ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock⁵⁶
73P2582 ann 12/29/03
Kensington Twin Head Cable Lock⁵⁶
45K1620 ann 09/30/08
USB Gemplus GemPC Smart Card Reader 41N3040 ann 02/21/06
56 Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2 ann 10/20/09	,
ThinkVision L1900p 19" Monitor	4431HE1 ann 11/11/08	
ThinkVision L1951p Wide 19" Monitor	2448HB6 ann 10/20/09	
ThinkVision L2250p Wide 22" Monitor	2572HB6 ann 10/20/09	
ThinkVision L2251p Wide 22" Monitor	2572HD6 ann 10/20/09	
ThinkVision L2251x Wide 22" Monitor	2578HB6 ann 10/20/09	
ThinkVision L2440p Wide 24" Monitor	4420HB2 ann 09/17/08	

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock56	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock56	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00
46 Compatible on colocted Langua and T	hink Vicion m	onitore

⁴⁶Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English
Microsoft Office 2007 Small Business, Engl 43R1528 ann 07/03/07
Microsoft Office 2007 Professional, English 43R1531 ann 07/03/07

For more information on desktop accessories, please visit: www.lenovo.com/support/accessories www.lenovo.com/support/desktopaccessories www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories







Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower



Lenovo ThinkCentre A63 Tower with Lenovo ThinkVision® monitor



Lenovo ThinkCentre A63 Tower

Type-model	Slot x bay	AMD processor	GHz	Core	Memory ⁸	SATA disk	2nd Disk Bay	SATA optical	Media reader	Integrated graphics	Monitor connectors	Int speaker		Global Educ	Avail date
4013-A7U	4x4	Sempron 140	27	Single	1GB	250GB ²	None	DVD	None	3000	VGA. DVI-D	Int	Prem 32	None	Feb 10

- This small and medium business (SMB) model is part of the US TopSeller™ Program
- This model has a 1-year limited warranty

Positioning Processor	Optimized for small and medium businesses AMD® Sempron™ Processor 140 with single-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR3 memory controller, and 1MB L2 cache Processor in Socket AM3	• 175mm W 2 • 24.2lb (11.0 • Handle on t	7.4" D X 16.2" H X 442mm D X 412mm H Okg) in typical configuration
Memory	1GB std, 4GB max, UDIMM, PC3-8500 1066MHz DDR3, two 240-pin DIMM sockets; Non-italics: standard memory in one socket; one socket available	Tilted frontToolless coToolless dis	I/O for easy access ver removal sk, optical drive removal
Graphics	ATI™ Radeon™ 3000, integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter	Bay ① 5.25", Bay ② 5.25", Bay ③ 3.5",	apter retention 1.6" high, access, std optical 1.6" high, access, open 1" high, access, open (reader) 1" high, no access, std disk
SATA disk(s) SATA DVD SATA Controller eSATA port	250GB, SATA 3.0Gb/s 7200 rpm DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive Serial ATA, SATA 3.0Gb/s, integrated in SB710, four SATA connectors None	Slot 1: half-le Slot 2: half-le Slot 3: half-le	ength, full-height, PCIe 2.0 x16 (75w max) ength, full-height, PCIe 2.0 x1 ength, full-height, PCIe 2.0 x1 ength, full-height, 32-bit PCI 2.3
Diskette drive Media reader	None None		Security One lock to secure both cover and
Chipset	AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O		entire system to fixed object: - Padlock loop (in rear for opt padlock) - Security slot (in rear for optional
Front ports Rear ports Rear audio ports Internal connector Audio Speaker Ethernet Modem Security chip	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5m Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (ster Two USB 2.0 planar conn (1 used; one open for media reader or 2 re High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None None	ereo, 3.5mm)	Kensington® MicroSaver® cable) Power-on password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Leno Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo	ovo® logo	
Power supply Preloaded opera	280 watts with variable speed fan, manual switch		Supports ThinkVantage® technologies

Preloaded applications⁵ (only some listed)

- ThinkVantage Product Recovery Password Manager

- ThinkVantage System Update ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2009 (30 days of virus definitions) Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)

2GB PC3-8500 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 45J5435 43R1990 TTB SATA 3.0Gb/s Disk (7200 rpm)

DVD-ROM DL SATA 1.5Gb/s 16X-48X Max

ATI Radeon HD 3470 256MB (DP, VGA)

NVIDIA® GeForce® 310 512MB (DP, VGA) 45J7918 41N5618 45K1636 57Y4397 More accessories on O-A63 sheet

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

Limited Warranty¹

- 1-year parts and labor
- International Warranty Service⁹
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts3, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951)
 - 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949)
 - 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952) 3-year LOR 9x5, Next Business Day
 - (ThinkPlus part number 45K5950)
 - 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) ThinkPlus services at
- lenovo.com/thinkplus/warranty
- 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Type-model	Slot x bay		GHz	Core	Memory ⁸						Monitor connectors			Recovery DVD		
5043-A1U	4x4	Athlon II X3 435	2.9	Triple	2GB	320GB ²	² No	DVD±RW	/ No	3000	VGA, DVI-D	No No	XP Pro	Pro 32	No	Feb 10
5043-A3U	4x4	Athlon II X2 240	2.8	Dual	1GB	250GB	No	DVD±RW	/ No	3000	VGA, DVI-D	No No	XP Pro	Pro 32	No	Feb 10
5043-A4U	4x4	Athlon II X2 240	2.8	Dual	2GB	320GB	No	DVD±RW	/ No	3000	VGA, DVI-D	No No	XP Pro	Pro 32	No	Feb 10
5043-A5U	4x4	Athlon II X2 245	2.9	Dual	2GB	320GB	No	DVD ±RW	/ No	3000	VGA, DVI-D) No	XP Pro	Pro 32	No	Feb 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

Positioning Processor	Optimized for small and m AMD® Athlon™ II X2 Prod 4000MHz HyperTransport¹ AMD Virtualization™ (AMIL AMD64 technology, int DD and 2MB L2 cache (1MB p AMD Athlon II X3 Proces 4000MHz HyperTransport AMD Virtualization (AMD-¹ AMD64 technology, int DD and 1.5MB L2 cache (512I Processor in Socket AM3	essor 240 or 245 with dual-core, ™ Bus, D-V [™]) technology, R3 memory controller, per core) or sor 435 with triple-core, Bus, V) technology, R3 memory controller,	 175mm W X 24.2lb (11.0 Handle on Power butto Tilted front Toolless co Toolless dis 	7.4" D X 16.2" H X 442mm D X 412mm H Dkg) in typical configuration top front on top handle I/O for easy access					
Memory	Non-italics: standard n	x, UDIMM, two 240-pin DIMM sockets; nemory in 1 socket; 1 socket available; D 1333MHz DDR3; 1066MHz DDR3	Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader) Bay ④ 3.5", 1" high, no access, std disk						
Graphics	memory (up to 256MB), or	with optional dual-head	Slot 1: half-le Slot 2: half-le Slot 3: half-le	1" high, no access, std disk ength, full-height, PCle 2.0 x16 (75w max) ength, full-height, PCle 2.0 x1 ength, full-height, PCle 2.0 x1 ength, full-height, 32-bit PCl 2.3 Security					
SATA disk(s) SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader		.0Gb/s 7200 rpm D±RW SATA 1.5Gb/s Drive integrated in SB710, four SATA connector	rs	One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password					
Chipset	AMD 760G Chipset with E SB710 south bridge / ITE	HyperTransport 3.0 and PCI Express® 2.0 Tech® IT8720 Super I/O	support;	Boot sequence control Boot without keyboard and mouse					
Internal connecto Audio	Four USB 2.0, serial (9-pir ethernet (RJ-45), monitor (Line-in (stereo, 3.5mm), lir r Two USB 2.0 planar conn High Definition (HD) Audio	ne-out (stereo, 3.5mm), microphone-in (ste (1 used; one open for media reader or 2 re	ereo, 3.5mm)	Serial port I/O control Individual USB port disablement					
Speaker Ethernet Modem	None Gigabit ethernet on planar None	, Marvell® 88E8057, Wake on LAN®		Supports ThinkVantage® technologies					
Security chip Keyboard	None	ard (USB connector), 104-key, black, Leno	wo® logo	GREENGUARD® certified RoHS-compliant					
Mouse Power supply		B connector), 400dpi, black, Lenovo logo	WO logo	Limited Warranty ¹					
through downg Windows 7 Pro Professional 3	Professional preinstalled grade rights in Genuine ofessional (with Windows 7 2 Recovery DVD) ications ⁵ (only some listed) Product Recovery	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 1GB PC3-10600 DDR3 UDIMM 2GB PC3-10600 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA D	 3-year parts and labor International Warranty Service⁹ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):⁷ 						

- Client Security Solution™
- ThinkVantage Productivity Center
- ThinkVantage Productivity Cert
 ThinkVantage System Update
 ThinkVantage Power Manager
- Lenovo System Toolbox Norton™ Internet Security 2009
- (30 days of virus definitions)

 Adobe® Reader®
- Adobe Flash® Player Skype™ for Windows
- Microsoft® Office 2007 Trial (60-day)
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
 Corel® WinDVD® (DVD±RW)

ATI Radeon HD 3470 256MB (DP, VGA) NVIDIA® GeForce® 310 512MB (DP, VGA) 45K1636 57Y4397 More accessories on O-A63 sheet

Acc Guide in pdf lenovo.com/accessoriesguide Other accessories at lenovo.com/accessories

- - · 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955)
 - 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956)
 - · 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957)
 - 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958)
- 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ThinkPlus services at
- lenovo.com/thinkplus/warranty 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Type-model	Slot x bay	AMD processor	GHz	Core	Memory	SATA disk	2nd Disk Bay				Monitor connectors	Int speaker	Win7 preload		
5043-AEU	4x4	Sempron 140	2.7	Single	2GB	250GB ²	None	DVD±RW	None	3000	VGA, DVI-D) Int	Pro 32	None	Feb 10
5043-AFU	4x4	Athlon II X2 240	2.8	Duăl	2GB	250GB	None	DVD±RW	None	3000	VGA, DVI-D) Int	Pro 32	None	Feb 10
5043-AGU	4x4	Athlon II X3 435	2.9	Triple	3GB	320GB	None	DVD±RW	None	3000	VGA, DVI-D) Int	Pro 32	None	Feb 10

- These small and medium business (SMB) models are part of the US TopSeller™ Program
- These models have a 3-year limited warranty

Positioning Processor	Optimized for small and m AMD® Sempron™ Proces 4000MHz HyperTransport™ AMD64 technology, int DD and 1MB L2 cache or AMD Athlon™ II X2 Proce 4000MHz HyperTransport AMD Virtualization (AMD-N AMD64 technology, int DD and 2MB L2 cache (1MB p AMD Athlon II X3 Proces 4000MHz HyperTransport AMD Virtualization (AMD-N AMD64 technology, int DD and 1.5MB L2 cache (512I Processor in Socket AM3	sor 140 with single-core, M Bus, D-VTM) technology, R3 memory controller, essor 240 with dual-core, Bus, J) technology, R3 memory controller, eer core) or sor 435 with triple-core, Bus, J) technology, R3 memory controller, eer core) ar	175mm W \(\) 24.2lb (11.0 Handle on I Power butto Tilted front Toolless co Toolless do prical drive Toolless ad Bay (1) 5.25", Bay (2) 5.25", Bay (3) 3.5",	17.3" D X 15.8" H X 440mm D X 402mm H .0kg) in typical configuration top front ton on top handle t I/O for easy access over removal isk, diskette drive, ve removal dapter retention ", 1.6" high, access, std optical open					
Memory	two 240-pin DIMM sockets Italics: standard men Non-italics: standard men	nory in both sockets; no sockets avail; nory in one socket; one socket available	Slot 2: half-le Slot 3: half-le	ength,full-height, PCIe 2.0 x16 (75w max) ength,full-height, PCIe 2.0 x1 ength,full-height, PCIe 2.0 x1 ength,full-height, 32-bit PCI 2.3					
Graphics	memory (up to 256MB), or	with optional dual-head		Security One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional					
SATA disk(s) SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	250GB or 320GB, SATA 3. Super Multi-Burner DL DV Serial ATA, SATA 3.0Gb/s, None None		Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Parallel port I/O control • Individual USB port disablement						
Front ports	SB710 south bridge / ITE	HyperTransport 3.0 and PCI Express® 2.0 s Tech® IT8720 Super I/O (stereo, 3.5mm), headphone (stereo, 3.5n							
Rear ports	Four USB 2.0, serial (9-pin ethernet (RJ-45), monitor (y), keyboard (PS/2), mouse (PS/2), (VGA DB-15, DVI-D)	,	Supports ThinkVantage technologies					
Rear audio ports Internal connector Audio	Line-in (stereo, 3.5mm), lir Two USB 2.0 planar conn High Definition (HD) Audio	e-out (stereo, 3.5mm), microphone-in (ste (1 used; one open for media reader or 2 re Bealtek® ALC662 codec	ereo, 3.5mm) ear USB ports)	GREENGUARD® certified RoHS-compliant					
Speaker Ethernet Modem Security chip	Internal speaker for busine			Limited Warranty¹					
Keyboard Mouse Power supply		ard (USB connector), 104-key, black, Leno B connector), 400dpi, black, Lenovo logo eed fan, manual switch	vo® logo	parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm, Mon - Fri coverage excluding holidays					
Preloaded appli ThinkVantage Password Man ThinkVantage ThinkVantage ThinkVantage Norton™ Interr (30 days of viru Adobe® Reade Adobe Flash®I Skype™ for Wir	cations ⁵ (only some listed) Product Recovery ager System Update Power Manager Toolbox tet Security 2009 us definitions) r ⁵ Player	Accessories 1GB PC3-10600 DDR3 UDIMM 2GB PC3-10600 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA DATI Radeon HD 3470 256MB (DP, VGA) NVIDIA® GeForce® 310 512MB (DP, VGA) More accessories on O-A63 sheet Acc Guide in pdf lenovo.com/accessories Other accessories at lenovo.com/accessories	next business day response time) Onsite service upgrade options (in eligible locations): 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ThinkPlus services at lenovo.com/thinkplus/warranty 24 hour x 7 day¹⁴ toll-free support						

lenovo.com/thinkplus/warranty

24 hour x 7 day¹⁴ toll-free support
during the warranty period¹
via 800-426-7378

Type-model	Slot x bay	AMD processor	GHz	Core I	Memory ⁸	SATA 2 disk	2nd Dis Bay	k SATA optical		Integrated graphics		Int speaker	Win7 preload	Global Educ	
5237-AAU	4x4	Athlon II X2 240	2.8	Dual	2GB	250GB ²	No	DVD±RW	None	3000	VGA, DVI-D	Int	Pro 32	No F	eb 10

• This model has a 1-year limited warranty

	·	•			
Positioning Processor	Optimized for small and machine AMD® Athlon™ II X2 Proced 4000MHz HyperTransport™ AMD Virtualization™ (AMD AMD64 technology, int DD and 2MB L2 cache (1MB perocessor in Socket AM3	essor 240 with dual-core, ^M Bus, I-V [™]) technology, R3 memory controller,	Tower • Business black color • 6.9" W X 17.4" D X 16.2" H • 175mm W X 442mm D X 412mm H • 24.2lb (11.0kg) in typical configuration • Handle on top front • Power button on top handle		
Memory	two 240-pin DIMM sockets	M, PC3-10600 1333MHz DDR3, ; ory in one socket; one socket available	Tilted frontToolless coToolless dis	I/O for easy access ver removal sk, optical drive removal	
Graphics	memory (up to 256MB), or	with optional dual-head	• Toolless adapter retention Bay ① 5.25", 1.6" high, access, std optical Bay ② 5.25", 1.6" high, access, open Bay ③ 3.5", 1" high, access, open (reader) Bay ④ 3.5", 1" high, no access, std disk		
SATA disk(s) SATA DVD SATA Controller	250GB, SATA 3.0Gb/s 720 Super Multi-Burner DL DVI Serial ATA, SATA 3.0Gb/s, four SATA connectors	D±RW SATA 1.5Gb/s Drive	ngth, full-height, PCIe 2.0 x16 (75w max) ngth,full-height, PCIe 2.0 x1 ngth,full-height, PCIe 2.0 x1 ngth,full-height, 32-bit PCI 2.3		
eSATA port Diskette drive Media reader	None None None			Security One lock to secure both cover and	
Chipset	Chipset AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O			One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional)	
Front ports Rear ports Rear ports Four USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 2.0, serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-D) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB port Audio High Definition (HD) Audio, Realtek® ALC662 codec Speaker Internal speaker for business audio Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None Security chip None Keyboard Mouse Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo Power supply			ereo, 3.5mm)	Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Individual USB port disablement	
			ovo® logo	Supports ThinkVantage® technologies	
	ows® 7 Professional 32 1GB PC3-10600 DDR3 UDIMM		57Y4389 57Y4390	GREENGUARD® certified RoHS-compliant	
Preloaded applications ⁵ (only some lister • ThinkVantage Product Recovery • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 (20 days of wires definitions)		500GB SATA 3.0Gb/s Disk (7200 rpm) 1TB SATA 3.0Gb/s Disk (7200 rpm) Super Multi-Burner DL DVD±RW SATA E ATI Radeon HD 3470 256MB (DP, VGA) NVIDIA® GeForce® 310 512MB (DP, VGA) More accessories on O-A63 sheet	43R1990 45J7918 Drive 41N5620 45K1636 A) 57Y4397	Limited Warranty 1-year parts and labor International Warranty Service Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts ³ , 8 am - 5 pm,	

- (30 days of virus definitions)

 Adobe® Reader®

 Adobe Flash® Player

 Skype™ for Windows

 Microsoft® Office 2007 Trial (60-day)

Acc Guide in pdf lenovo.com/accessoriesquide Other accessories at lenovo.com/accessories

- for selected parts³, 8 am 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Onsite service upgrade options (in eligible locations):7
 - 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951)
 - 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949)
 - · 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952)
 - 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950)
- 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) ThinkPlus services at
- lenovo.com/thinkplus/warranty 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378

Slot x	AMD	SATA 2nd Disk SATA Inte	grated Monitor II	nt Chassis Recovery Global Avail	
Type-model bay	processor GHz Core I	lemory ⁸ disk Bay optical gra	phics connectors spe	aker intr switch Preload DVD Educ date	
6674-A6U 4x4 6674-A8U 4x4	Athlon II X3 435 2.9 Triple Athlon II X2 240 2.8 Dual Athlon II X2 245 2.9 Dual Athlon II X2 245 2.9 Dual	1GB 250GB No DVD 3 2GB 320GB No DVD±RW 3 2GB 320GB No DVD±RW 3		XP Pro Pro 32 None Feb 10 XP Pro Pro 32 None Feb 10 XP Pro Pro 32 None Feb 10 XP Pro Pro 32 None Feb 10 XP Pro Pro 32 None Feb 10	
	These models have a 3-y	vear limited warranty ¹			
Positioning Processor	Optimized for small and m AMD® Athlon™ II X2 Proc 4000MHz HyperTransport³ AMD Virtualization™ (AME AMD64 technology, int DD and 2MB L2 cache (1MB p AMD Athlon II X3 Proces 4000MHz HyperTransport AMD Virtualization (AMD-\ AMD64 technology, int DD and 1.5MB L2 cache (512I Processor in Socket AM3	essor 240 or 245 with dual-core, M Bus, 0-V TM) technology, R3 memory controller, per core) or sor 435 with triple-core, Bus, 1) technology, R3 memory controller,	175mm W 24.2lb (11. Handle on Power butt Tilted from Toolless of Toolless di optical driv	7.3" D X 15.8" H X 440mm D X 402mm H .0kg) in typical configuration	
Memory	Non-italics: standard n	k, UDIMM, two 240-pin DIMM soci nemory in 1 socket; 1 socket availa 0 1333MHz DDR3; 1066MHz DDR3	kets; lble; Bay ① 5.25 Bay ② 5.25 Bay ③ 3.5",	", 1.6" high, access, std optical ", 1.6" high, access, open 1" high, access, opt reader	
Graphics	memory (up to 256MB), or	with optional dual-head	Slot 1: half-l Slot 2: half-l Slot 3: half-l	1" high, no access, std disk ength,full-height, PCle 2.0 x16 (75w max) ength,full-height, PCle 2.0 x1 ength,full-height, PCle 2.0 x1 ength,full-height, 32-bit PCl 2.3	
SATA disk(s) SATA DVD SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	Some: Super Multi-Burner Serial ATA, SATA 3.0Gb/s, None None None	A 1.5Gb/s 16X-48X Max⁴ Drive DL DVD±RW SATA 1.5Gb/s Drive integrated in SB710, four SATA co	nnectors	Security One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock) Security slot (in rear for optional Kensington® MicroSaver® cable) Power-on password Boot sequence control Boot without keyboard and mouse Serial port I/O control	
Chipset	AMD 760G Chipset with F SB710 south bridge / ITE	lyperTransport 3.0 and PCI Expre lech® IT8720 Super I/O	ss® 2.0 support;		
Audio	Four USB 2.0, serial (9-pin ethernet (RJ-45), monitor (Line-in (stereo, 3.5mm), lir ir Two USB 2.0 planar conn High Definition (HD) Audio	e-out (stereo, 3.5mm), microphon 1 used; one open for media reade , Realtek® ALC662 codec	e-in (stereo, 3.5mm)	Individual USB port disablementSome: Chassis intrusion switch	
Speaker Ethernet Modem	Some: Internal speaker for Gigabit ethernet on planar, None	Marvell® 88E8057, Wake on LAN	8	Supports ThinkVantage technologies	
Security chip Keyboard	None	urd (USB connector), 104-key, blac	k. Lenovo® logo	GREENGUARD® certified RoHS-compliant	
Mouse Power supply		3 cònnector), 400dpi, black, Lenov		Limited Warranty ¹	
through downg Windows 7 Pr Professional 3 Preloaded appl • ThinkVantage • Client Security • ThinkVantage • ThinkVantage • ThinkVantage • ThinkVantage • ThinkVantage • Norton™ Interi (30 days of vir • Adobe® Reade • Adobe Flash® • Skype™ for W • Microsoft® Off • Roxio® Creato (DVD±RW) • Roxio® MyDVD	Professional preinstalled grade rights in Genuine ofessional (with Windows 7 2 Recovery DVD) ications⁵ (only some listed) Product Recovery / Solution™ Productivity Center System Update Power Manager m Toolbox net Security 2009 us definitions) er® Player indows ice 2007 Trial (60-day) r® Business Edition	Accessories 1GB PC3-8500 DDR3 UDIMM 2GB PC3-8500 DDR3 UDIMM 1GB PC3-10600 DDR3 UDIMM 2GB PC3-10600 DDR3 UDIMM 500GB SATA 3.0Gb/s Disk (7200 rp DVD-ROM DL SATA 1.5Gb/s 16X Super Multi-Burner DL DVD±RW ATI Radeon HD 3470 256MB (DR NVIDIA® GeForce® 310 512MB (I) More accessories on O-A63 sheet Acc Guide in pdf lenovo.com/acc Other accessories at lenovo.com	m) 45J7918 -48X Max 41N5618 SATA Drive 41N5618 C VGA) 45K1636 DP, VGA) 57Y4397 et cessoriesguide	parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations):7 • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955)	

Slot x Type-model bay	AMD processor GHz M	SATA 2r emory [®] disk	nd Disk SATA Bay optical		tegrated Monit raphics connec	or Int Chassis Win7 Global Avai tors speaker intr switch Preload Educ date
6674-ANU 4x4 6674-APU 4x4	Athlon II X2 240 2.8 Athlon II X3 435 2.9 Sempron 140 2.7 Athlon II X2 245 2.9	3GB 500GB ² 2GB 250GB 2GB 250GB 2GB 250GB 2GB 250GB	No DVD±RW No DVD±RW No DVD±RW No DVD±RW No DVD±RW		3000 VGA, D' 3000 VGA, D' 3000 VGA, D' 3000 VGA, D' 3000 VGA, D'	VI-D Int Pro 32 None Feb 10 VI-D Int Pro 32 None Feb 10 VI-D Int Pro 32 None Feb 10
	These models have a 3-	year limited warı	ranty¹			
Positioning Processor	4000MHz HyperTransport¹ AMD Virtualization™ (AMIC AMD64 technology, int DD and 1MB L2 cache or 4000MHz HyperTransport AMD Virtualization (AMD-¹ AMD64 technology, int DD and 2MB L2 cache (1MB p AMD Athlon II X3 Proces 4000MHz HyperTransport AMD Virtualization (AMD-¹ AMD64 technology, int DD and 1.5MB L2 cache (512I AMD Phenom™ II X4 Proces 4000MHz HyperTransport AMD Virtualization (AMD-¹ AMD64 technology, int DD AMD64 technology, int DD 2MB L2 cache (512KB per	Tower I d medium businesses I cessor 140 with single-core, sort™ Bus, AMD-V™) technology, DDR3 memory controller, I coressor 240 or 245 with dual-core, sort Bus, AMD-V) technology, DDR3 memory controller, I coressor 435 with triple-core, sort Bus, AMD-V) technology, DDR3 memory controller, I colless cover removal I colless disk, diskette drive, optical drive removal I colless adapter retention Bay ① 5.25″, 1.6″ high, access, std optical bay ② 5.25″, 1.6″ high, access, open Bay ② 3.5″, 1″ high, access, opt reader bay ② 3.5″, 1″ high, no access, std disk I coressor B93 with quad-core, sort Bus, AMD-V) technology, DDR3 memory controller, I core in triple-core, optical drive removal I colless disk, diskette drive, optical drive removal I colless adapter retention Bay ② 5.25″, 1.6″ high, access, open Bay ③ 3.5″, 1″ high, access, opt reader bay ③ 3.5″, 1″ high, no access, std disk Slot 1: half-length, full-height, PCle 2.0 x16 (75w magnetic for the full-height, PCle 2.0 x16				7.3" D X 15.8" H X 440mm D X 402mm H Okg) in typical configuration top front on on top handle I/O for easy access ver removal sk, diskette drive, e removal apter retention 1.6" high, access, std optical 1" high, access, open 1" high, access, opt reader 1" high, no access, std disk ength, full-height, PCle 2.0 x16 (75w max) ength, full-height, PCle 2.0 x1 ength, full-height, PCle 2.0 x1
Implementation	Processor in Socket AM3					ength,full-height, 32-bit PCI 2.3
Memory	Non-italics: standard men ABU/APU/ARU/ASU: PC3	nory in both sock nory in 1 socket;	kets; no sockets ; 1 socket availab Iz DDR3 ;	available;		Security One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock)
Marie Hadeon ™ 3000, integrated in chipset, uses main memory (up to 256MB), one analog VGA DB-15 connector, one DVI-D connector, DirectX® 10, ATI Avivo™, SurroundView™, supports dual independent display; supports up to 4 monitors with optional dual-head ATI Radeon discrete graphics adapter Kensington® MicroSaver® cable) • Power-on password • Boot sequence control • Boot without keyboard and mouse • Serial port I/O control • Parallel port I/O control			Power-on password Boot sequence control Boot without keyboard and mouse Serial port I/O control			
SATA disk(s) SATA DVD±RW SATA Controller eSATA port Diskette drive Media reader	Serial ATA, SATA 3.0Gb/s, None None					
Chipset AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge / ITE Tech® IT8720 Super I/O Supports Think/(antago tachnology)			Supports Think Ventege technologies			
Front ports Rear ports	t ports Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)			nm)	Supports ThinkVantage technologies GREENGUARD® certified	
ethernet (RJ-45), monitor (VGA DB-15, DVI-D) Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Internal connector Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) Audio High Definition (HD) Audio, Realtek® ALC662 codec Speaker Internal speaker for business audio Ethernet Gigabit ethernet on planar, Marvell® 88E8057, Wake on LAN® None Security chip None None None Reductive thermal Speaker on LAN® None None None None None None None None				Limited Warranty ¹		
Keyboard Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Mouse Optical Wheel Mouse (USB connector), 400dpi, black, Lenovo logo Power supply 280 watts with variable speed fan, manual switch Mon - Fri connector black, Lenovo® logo next busine Onsite servi				Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options		
Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 32 Preloaded applications⁵ (only some listed) • ThinkVantage Product Recovery • Password Manager • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Power Manager • ThinkVantage Power Manager • ThinkVantage Power Manager • ThinkVantage Power Manager • ThinkVantage Power Manager • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton™ Internet Security 2009 • Norton™ Internet Security 2009 Accessories 1GB PC3-8500 DDR3 UDIMM			45K1636 A) 57Y4397 esguide	(in eligible locations): ⁷ • 3-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5955) • 3-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5956) • 4-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5957) • 4-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5958) • 4-year LOR 24x7, 4 hour response (ThinkPlus part number 45K5959) ▼ ThinkPlus services at lenovo.com/thinkplus/warranty ≈ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378		

ThinkCentre® A63 Accessories

Partial list of accessories supported on ThinkCentre A63

Memory

1GB PC3-8500 DDR3 UDIMM ⁴⁰	45J5434 ann 11/18/08	
1GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4421 ann 11/10/09	
2GB PC3-8500 DDR3 UDIMM `	45J5435 ann 11/18/08	
2GB PC3-8500 DDR3 UDIMM (25-Pack)	57Y4422 ann 11/10/09	
1GB PC3-10600 DDR3 Low-Halogen UDIMM	57Y4389 ann 01/12/10	
1GB PC3-10600 DDR3 L-H UDIMM (25-Pack)	57Y4419 ann 01/12/10	
2GB PC3-10600 DDR3 Low-Halogen UDIMM	57Y4390 ann 01/12/10	
2GB PC3-10600 DDR3 L-H UDIMM (25-Pack)	57Y4420 ann 01/12/10	
40 When PC3-8500 is installed with systems that have PC3-10600		
memory, PC3-10600 will operate at the PC3-85	00 memory speed.	

Optical

- p	
DVD-ROM DL SATA 1.5Gb/s 16X-48X Max4	41N5618 ann 09/26/06
Super Multi-Burner DL DVD±RW SATA Drive	41N5620 ann 09/26/06

Storage and removable storage

250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015 ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990 ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm)	45J7918 ann 08/19/08
USB 2.0 Essential Memory Key 4GB USB 2.0 Essential Memory Key 8GB USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 2GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Ultra Secure Memory Key 8GB USB 2.0 Portable 320GB Hard Disk USB 2.0 Portable 500GB Hard Disk USB 2.0 Portable Secure 160GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk eSATA/USB 2.0 Secure 500GB Hard Drive USB 2.0 Portable DVD Burner	45J7904 ann 06/24/08 45J7905 ann 07/15/08 45K1258 ann 10/28/08 45J5916 ann 08/26/08 45J5917 ann 08/26/08 45J5918 ann 03/17/09 45K1689 ann 03/17/09 45K1690 ann 05/26/09 43R2018 ann 11/18/08 43R2019 ann 11/18/08 57Y4400 ann 01/07/10 41N5565 ann 01/23/07 43N3264 ann 01/05/10

Graphics

Graphics ATI™ Radeon™ HD 3470 256MB (DP, VGA)⁵⁸ NVIDIA® GeForce® 310 512MB (DP, VGA) NVIDIA GeForce 310 DMS59 (2-DVI, 2-VGA) 45K1636 ann 11/18/08 57Y4397 ann 02/02/10 57Y4167 ann 03/02/10 58 Installing this graphics card does not disable the system monitor ports, thereby allowing a four monitor configuration.

More information at www.lenovo.com/support/graphiccards

rtcybourd		
Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Preferred Pro Full Size PS/2 Keyboard	31P7415	ann 06/04/02
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse ⁵²	57Y4700	ann 09/15/09
ThinkPad USB Keyboard with TrackPoint	55Y9003	ann 08/18/09
Lenovo® USB Fingerprint Keyboard	73P4730	ann 02/22/05
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09
52 Wireless via 2.4GHz technology using a micro-	size USB	receiver.

More information at www.lenovo.com/support/keyboards

Mouse

Wouse	
Lenovo Mini Optical Mouse - Black (USB)	55Y9308 ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309 ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405 ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074 ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696 ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198 ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

USB 2.0 Lenovo Webcam	40Y8519	ann 08/29/06
ThinkPad® In-Ear Headphones	57Y4488	ann 01/07/10

Security

occurry		
Kensington® MicroSaver® Cable Lock56	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock56	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06
56 Attaching to any form factor not only sec	cures the TI	ninkCentre to
the work area, but it also prevents users fr	rom openin	g the chassis
itself.	•	_

Monitors

Lenovo D186 Wide 18.5" Monitor	2580AB1 ann 01/12/10
ThinkVision® L1711p 17" Monitor	5047HB2 ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1 ann 11/11/08
ThinkVision L1951p Wide 19" Monitor	2448HB6 ann 10/20/09
ThinkVision L2250p Wide 22" Monitor	2572HB6 ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6 ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6 ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2 ann 09/17/08

More information at www.lenovo.com/thinkvision

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock ⁵⁶	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00
46 C	'la ! .a ! . / / . a	

⁴⁶Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43H1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English		

For more information on desktop accessories, please visit: www.lenovo.com/support/accessories www.lenovo.com/support/desktopaccessories www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories





Lenovo ThinkCentre A70z All-In-One (Wireless keyboard & mouse on selected models only)



Lenovo ThinkCentre A70z All-In-One



Lenovo ThinkCentre A70z All-In-One



Lenovo ThinkCentre A70z All-In-One



ThinkCentre A70z Performance Stand 57Y4277



Lenovo ThinkCentre A70z All-In-One

Type-model	Proc- essor	GHz	Memory	Widescreen display	Camera (mega- pixel)	Integrated graphics	SATA disk	SATA optical	Mini PCle 802.11 wireless	Keyboard /Mouse	ENERGY STAR 5.0	Win7 preload	Global Educ	Avail date
				19.0" WXGA+ 19.0" WXGA+		GMA X4500 GMA X4500	250GB ² 320GB	DVD±RW DVD±RW		USB USB	ES50 ES50	Home P Pro 32		Dec 09 Dec 09
				19.0" WXGA+							ES50	Pro 32		Dec 09

- These small and medium business (SMB) models are part of the US TopSeller™ Program
 Best space saving solution & excellent cable management
 These models have a 1-year limited warranty¹

Positioning Processor	All-In-One PC for business Intel® Celeron® Processe 800MHz system bus, and Intel Pentium® Processe 800MHz system bus, and Intel Core™ 2 Duo Proces 1066MHz system bus, an Processor in LGA775 soo	or E3200 with dual-core, 1MB L2 cache or or E5300 with dual-core, 2MB L2 cach or essor E7500 with dual-core, d 3MB L2 cache	All-In-One Business black color 18.58" W X 2.87" D X 14.0" H 472mm W X 73mm D X 356mm H 17.6 lb (8 kg) in maximum configuration Handle in rear Support VESA mount (100mm) Picture frame style metallic stand (Tilt 10°-35°)		
Memory	non-parity, dual-channel of	x ⁸ , PC2-6400 800MHz DDR2 , apable, two 240-pin DIMM sockets; mory in one socket; one socket available	Bay ① 3.5",	1" high, no access, std disk (desktop) .5" high, access, std optical (notebook)	
Graphics	Intel Graphics Media Ac integrated graphics in G4	celerator X4500 (GMA X4500), 1, uses main memory, DirectX® 10		Security	
SATA disk SATA DVD±RW eSATA port Diskette drive Media reader Widescreen display Camera	250GB or 320GB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable None None None Videscreen display 250GB or 320GB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable None None None 19.0" (482.6mm) WXGA+ (1440x900) TFT color, anti-glare, CCFL backlight, 300 nits, 16:10 aspect ratio, 1000:1 contrast ratio			Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) Boot sequence control Boot without keyboard, mouse USB port disablement	
Chipset	· · · · · ·	set; I/O Controller Hub 7 (ICH7)		-	
Ports Rear: Three USB 2.0, serial (9-pin), ethernet (RJ-45) Side: Three USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) One Mini PCI Express 11b/g/n¹² Some: 11b/g/n wireless¹³, Mini PCIe adapter, Broadcom® BCM43225 Audio High Definition (HD) Audio, CONEXANT™ CX20582 codec Speaker IEEE 1394 Ethernet Gigabit ethernet on planar, Realtek® RTL8111DL None Modem None			Supports ThinkVantage® technologies ENERGY STAR® 5.0-compliant RoHS-compliant Limited Warranty¹		
Security chip	None				
Keyboard Mouse Power supply		ard (USB), 104-key, black, Lenovo [®] logo B connector), 400 dpi, black, Lenovo logo 5% PSU		 International Warranty Service Customer Replaceable Unit (CRU) parts only (with limited onsite service 	
- Some: Genuir Profess Preloaded appli • ThinkVantage • ThinkVantage • ThinkVantage • Lenovo Online • Norton™ Interr (30 days of viri • Adobe® Reade • Adobe Flash® • Skype™ for Wi • Microsoft® Offii	e Windows® 7 Premium 32 e Windows 7 sional 32 cations⁵ (only some listed) Product Recovery System Update Power Manager Toolbox Data Backup ete Security 2009 us definitions) r® Player ndows ce 2007 Trial (60-day) ® Business Edition	Accessories 1GB PC2-6400 DDR2 UDIMM 2GB PC2-6400 DDR2 UDIMM ThinkCentre A70z Performance Stand More accessories on O-A70Z sheet Acc Guide in pdf lenovo.com/accessorie Other accessories at lenovo.com/acces	41U2977 41U2978 57Y4277 esguide sories	for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time) Onsite service upgrade options (in eligible locations): ⁷ • 1-year LOR 9x5, 4 hour response (ThinkPlus™ part number 45K5951) • 2-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5949) • 2-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5952) • 3-year LOR 9x5, Next Business Day (ThinkPlus part number 45K5950) • 3-year LOR 9x5, 4 hour response (ThinkPlus part number 45K5953) ThinkPlus part number 45K5953) ThinkPlus services at lenovo.com/thinkplus/warranty Post warranty maintenance services available 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378	

ThinkCentre® A70z Accessories

Partial list of accessories supported on ThinkCentre A70z AIO

N	1e	m	0	ry

1GB PC2-6400 DDR2 UDIMM	41U2977	ann 09/26/06
1GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0549	ann 03/17/09
2GB PC2-6400 DDR2 UDIMM `	41U2978	ann 01/08/08
2GB PC2-6400 DDR2 UDIMM (25-Pack)	51J0550	ann 03/17/09

Storage and removable storage

160GB SATA 3.0Gb/s Disk (7200 rpm)	09N4254	ann 05/19/03
250GB SATA 3.0Gb/s Disk (7200 rpm)	41N3015	ann 01/24/06
500GB SATA 3.0Gb/s Disk (7200 rpm)	43R1990	ann 11/06/07
USB 2.0 Essential Memory Key 4GB USB 2.0 Essential Memory Key 8GB USB 2.0 Essential Memory Key 32GB USB 2.0 Ultra Secure Memory Key 1GB USB 2.0 Ultra Secure Memory Key 2GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Ultra Secure Memory Key 4GB USB 2.0 Portable 320GB Hard Disk USB 2.0 Portable 500GB Hard Disk USB 2.0 Portable Secure 160GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Portable Secure 320GB Hard Disk USB 2.0 Secure 500GB Hard Drive USB 2.0 Super Multi-Burner Drive USB 2.0 Portable DVD Burner	45J7904 45J7905 45K1258 45J5915 45J5916 45J5918 45K1689 45K1690 43R2019 57Y4400 41N5565 43N3264	ann 06/24/08 ann 07/15/08 ann 10/28/08 ann 08/26/08 ann 08/26/08 ann 08/26/08 ann 03/17/09 ann 05/26/09 ann 11/18/08 ann 11/18/08 ann 01/07/10 ann 01/23/07 ann 01/05/10

Keyboard

Reyboard
Preferred Pro USB Keyboard
Preferred Pro USB Keyboard
Enhanced Performance USB Keyboard
Ultraslim Wireless Keyboard and Mouses
ThinkPad USB Keyboard with TrackPoint
Lenovo® USB Fingerprint Keyboard
Lenovo USB Smartcard Keyboard
Se Wireless via 2.4GHz technology using a micro-size USB receiver. 73P5220 ann 06/21/05 73P2620 ann 03/23/04 57Y4700 ann 09/15/09 55Y9003 ann 08/18/09 73P4730 ann 02/22/05 51J0155 ann 03/24/09

More information at www.lenovo.com/support/keyboards

Mouse

Modesc		
Lenovo Mini Optical Mouse - Black (USB)	55Y9308	ann 05/19/09
Lenovo Mini Optical Mouse - White (USB)	55Y9309	ann 05/19/09
Lenovo Optical Mouse (USB)	06P4069	ann 05/21/03
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02
Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
Lenovo Wireless Laser Mouse - Black ⁵²	45K1696	ann 11/25/08
Lenovo Wireless Laser Mouse - Red/Black ⁵²	51J0198	ann 11/25/08

More information at www.lenovo.com/support/mice

Multimedia

ThinkPad® In-Ear Headphones 57Y4488 ann 01/07/10

Security

Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
USB Gemplus GemPC Smart Card Reader	41N3040	ann 02/21/06

Stand

ThinkCentre A70z Performance Stand 57Y4277 ann 11/17/09

Monitor Accessories⁴⁶

Lenovo USB-to-DVI Monitor Adapter	45K5296	ann 05/12/09
Kensington MicroSaver Cable Lock ⁵⁶	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock56	45K1620	ann 09/30/08
Radial Arm	19K4464	ann 05/05/00
1 46		

⁴⁶Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

Medialess License Key (MLK)

Microsoft® Office 2007 Basic, English	43R1528	ann 07/03/07
Microsoft Office 2007 Small Business, Engl	43R1534	ann 07/03/07
Microsoft Office 2007 Professional, English	43R1531	ann 07/03/07

For more information on desktop accessories, please visit: www.lenovo.com/support/accessories www.lenovo.com/support/desktopaccessories www.lenovo.com/support/security

Other accessories at www.lenovo.com/accessories

ThinkCentre® - ThinkPlus™ Services

Partial list of Lenovo® ThinkPlus Services7 for ThinkCentre desktops

For more information see:

http://www.lenovo.com/services_warranty/us/en/index.html

ThinkPlus service upgrade options for ThinkCentre M series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

1-year LOR 9x5 4-hour response	41C9189
2-year LOR 9x5 Next Business Day	41C9187
2-year LOR 9x5 4-hour response	41C9190
3-year LOR 9x5 Next Business Day	41C9188
3-year LOR 9x5 4-hour response	41C9191

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 4-hour response	41C9192
3-year LOR 24x7 4-hour response	41C9193
4-year LOR 9x5 Next Business Day	41C9194
4-year LOR 9x5 4-hour response	41C9195
4-vear LOR 24x7 4-hour response	41C9196

ThinkPlus service upgrade options for ThinkCentre A series

ThinkCentre desktop with 1-year Onsite warranty

LOR = Lenovo Onsite Repair

1-year LOR 9x5 4-hour response	45K5951
2-year LOR 9x5 Next Business Day	45K5949
2-year LOR 9x5 4-hour response	45K5952
3-year LOR 9x5 Next Business Day	45K5950
3-year LOR 9x5 4-hour response	45K5953

ThinkCentre desktop with 3-year Onsite warranty

LOR = Lenovo Onsite Repair

3-year LOR 9x5 4-hour response	45K5955
3-year LOR 24x7 4-hour response	45K5956
4-year LOR 9x5 Next Business Day	45K5957
4-year LOR 9x5 4-hour response	45K5958
4-year LOR 24x7 4-hour response	45K5959
5-year LOR 9x5 Next Business Day	45K5963

ThinkPlus Secure Business

Lenovo Online Data Backup

- Secure offsite data storage
- 256-bit Advanced Encryption System
- Data recovery or access in case of an unforeseen event
- Automatic, rémote management
- Choose which business critical data to back up

1-year Lenovo Online Data Backup - 10GB	51J0787
1-year Lenovo Online Data Backup - 25GB	51J0795
1-year Lenovo Online Data Backup - 50GB	45K5849
1-year Lenovo Online Data Backup - Unlimited	45K5870

ThinkPlus Priority Support for enterprise customers

- 9x5 next-business-day response Lenovo Onsite Repair
- 24x7 support with priority routing and advanced level technicians

ThinkCentre desktop with 1-year Onsite warranty

3-year Priority Support 45J9087

ThinkCentre desktop with 3-year Onsite warranty

3-year Priority Support	45J9088
4-year Priority Support	45J9089
5-year Priority Support	45J9090
3-year Priority Support 4-hour response	45J9091
4-year Priority Support 4-hour response	45J9092
5-year Priority Support 4-hour response	45J9093

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

- Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- ² Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- 3 Limited onsite service systems are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.
- 4 CD and DVD list maximum rates; rates are variable and are often less than the maximum.
- Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

- Multi-Burner Plus (part number 73P3305 or 73P3370) is a DVD±RW device that reads and writes to DVD-RAM, DVD-R, DVD-RW, DVD+R, and DVD+RW. It also reads and writes to CD-R and CD-RW media. 73P3370 also writes to DVD+R double layer media.
- ThinkPlus Services: These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See ThinkPlus terms and conditions for complete details and restrictions.
- 8 Memory: For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.
- ⁹ International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

- 10 Modem speeds: Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- 11 For combination drives, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.
- ¹² The IEEE 802.11n specification (MIMO) has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.
- Wireless capability: Requires compatible wireless-enabled options sold separately.
- ¹⁴ Response times may vary. May exclude some holidays. Telephone support may be subject to additional charges.
- 15 Update Connector is available at no charge to registered customers during the limited warranty period. Line charges may apply.
- 16 Embedded Security Subsystem works with optional VPN software.

- ¹⁸ Embedded Security Subsystem may require download of client security software from the Web.
- ¹⁹ Asset ID allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- Operating System: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

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Visit www.lenovo.com/psref for the latest version of Personal Systems Reference.

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