Data Sheet

ESPRIMO P7935 E80+
Your expandable business workhorse

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Fujitsu Siemens Computers is the leading European IT manufacturer. With a strategic focus on innovative mobility and the dynamic data center, we offer a unique range of products and services from notebooks and desktops to servers and IT infrastructure solutions. Famous German engineering and exceptional in-house quality testing capabilities in our test centers ensure extraordinary product quality and reliability across all product lines.

ESPRIMO P7935 E80+

The ESPRIMO P7935 equipped with state-of-the-art Intel® chip and processor technology is the ideal partner for all your demanding business applications. Produced with selected material and equipped with comprehensive powersave options, such as switched monitor output, 80% effective power supply and energy-saving management, the ESPRIMO microtower PC today already meets the environment requirements of tomorrow. With extended system management functions, intelligent hardware design, extensive tests and a lifecycle of up to 18 months, the high performance levels of this professional PC meet every requirement.

Microtower
Maximum performance and optimal extendability
■ Top-quality, high-value microtower, 6 drive bays, 4 PCI interfaces

Environmentally compatible product
Your contribution to environmental protection for the continued existence of our planet
■ Halogen-free mainboard, sophisticated product concept for the entire lifecycle

Quiet
Pleasant working environment due to an extremely quiet system
■ Innovative hardware design, optimized fan concept

System management
Simple system administration for complex IT infrastructures
■ Intel® vPro™ technology

Energy saving
Low power consumption and costs with no loss in performance.
■ State-of-the-art technology, switched monitor outlet, low energy-consuming processors, 80% effective power supply and enhanced power management settings

Components

Processor	Intel® Core™2 Quad Q9550 (2.83 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad Q9400 (2.66 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad Q8200 (2.33 GHz, 4 MB, 1333 MHz)
	Intel® Core™2 Duo E8600 (3.33 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo E8500 (3.16 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo E8400 (3.0 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo E7400 (2.8 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo E7300 (2.66 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo E5200 (2.5 GHz, 2 MB, 800 MHz)
	Intel® Pentium® Dual-Core E2220 (2.4 GHz, 1 MB, 800 MHz)
	Intel® Pentium® Dual-Core E2200 (2.2 GHz, 1 MB, 800 MHz)
	Intel® Celeron® Dual-Core E1400 (2.0 GHz, 512 KB, 800 MHz)
	Intel® Celeron® Dual-Core E1200 (1.6 GHz, 512 KB, 800 MHz)
Memory modules	2 GB (1 x 2 GB, DDR2), 800 MHz
	1 GB (1 x 1 GB, DDR2), 800 MHz
Hard disk drives (internal)	SATA II, 7200 rpm, 500 GB, 3.5-inch S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 3.5-inch S.M.A.R.T.
Hard disk notes	Supporting NCQ and 3 GBit
Graphics add on cards (optional)	ATI Radeon® HD 3450 256 MB
	DVI Adapter
	NVIDIA® GeForce 9300GE 256 MB
	NVIDIA® GeForce 9500GS 512 MB
	NVIDIA® Quadro NVS 290 256 MB
Modular bay options	1.44 MB Floppy, standard
	Blu-ray Disc Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 15in1, 3,5-Inch
Interface add on cards/components (optional)	
	WLAN III, 802.11g/Draft-n
	WLAN II, 802.11g, 54Mbps
	Parallel Interface
	Modem adapter kit (EU)
	Modem 56k incl. RJ11 modem cable
	Gigabit Ethernet PCIe x1
	FireWire PCI-Card IEEE1394
	eSATA Interface
	Dual serial card, PCI, EX-43092
Base unit	**ESPRIMO P7935 E80+**

Mainboard

Mainboard type	D2812
Formfactor	µBTX
Chipset	Intel® Q45
Processor socket	LGA 775
Processor quantity maximum	1
System bus support (FSB / PSB)	up to 1333 MHz
Memory slots	4 DIMM (DDR2)
Supported capacity RAM (max.)	8 GB
Memory frequency	800 MHz
Memory notes	Dual channel support.
	For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Intel® 82567LM
BIOS version	Phoenix 6.0
BIOS features	BIOS Flash EPROM update by software
	Recovery BIOS
Audio codec	Realtek ALC663
Audio features	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound

I/O controller on board

Serial ATA total	4
thereof eSATA	2 (optional)
Controller functions	Serial ATA II
	NCQ and 3 GBit
	Raid 1/0

Interfaces

Audio: line-in / microphone	1
Audio: line-in	1
Audio: line-out	1
Front audio: headphone	1
Front audio: microphone	1

Interfaces

USB 2.0 total	12
USB front	2
USB rear	6
USB internal	4, thereof 2 optional rear
VGA	1
DVI	optional
Serial (RS-232)	1 (9pi, 16 byte FIFO, 16550 compatible)
PS/2 (mouse / keyboard)	2
Ethernet (RJ-45)	1
Parallel	optional (25pin with EPP and ECP)

Input device / components

	Optical USB tilt wheel mouse
	Optional: Optical USB/PS2 tilt wheel mouse

Drive bays

Drive bays total	6
3.5-inch internal bays	2
3.5-inch external bays	2
5.25-inch external bays	2

Slots

PCI-Express x16	1 x (230 mm) FlexySlot
PCI-Express x4 (mech. x8)	1 x (230 mm) full height
PCI (32-bit / 33 MHz)	2 x (170 / 315 mm) full height

Graphic on board

Graphics brand name	Intel® GMA 4500
Shared video memory	Up to 256 MB
Refresh rate 1024 x 768 (recommended / max.)	85 Hz / -
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel
	1440 x 900 pixel
	1680 x 1050 pixel
	1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel
	1440 x 900 pixel
	1680 x 1050 pixel
	1920 x 1200 pixel
Graphic notes	Tested resolutions, depending on display type additional resolutions and frequencies possible
	Shared memory depending on main memory size
	Resolution (color depth up to 32 Bit/pixel)
	For TFT we recommend to use 60Hz.

Electrical values

Rated voltage range	100 - 240 V
Rated frequency range	50 - 60 Hz
Operating voltage range	90 - 264 V
Operating line frequency range	47 - 63 Hz
Max. output of power supply	300 W
Power factor correction/active power	active
Monitor outlet	Switched

Power consumption

Power consumption note	see white paper Energy Consumption

Heat dissipation

Heat dissipation notes	see white paper Energy Consumption

Noise for standard configuration (HDD, ODD, FDD)

Noise emission	According to ISO9296
Noise Operation mode 1: ODD load (Blue angel requirement)	4,5 B / 30 dB
Noise Operation mode 2: HDD load (Blue angel requirement)	3,5 B / 18 dB
Noise Operation mode 4: High load	3,5 B / 19 dB
Noise Operation mode 5: Office applications	3,6 B / 19 dB
Idle mode (Blue Angel requirement)	3,5 B / 18 dB
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position

Dimensions / Weight / Environmental

Operating ambient temperature	15 - 35 °C
Dimension (W x D x H)	203 x 390 x 392 mm
Operating position	Vertical
Weight	approx. 12 kg
Weight notes	Weight may vary depending on actual configuration.

Compliance

Germany	Blauer Engel / Blue Angel tbd
	GS tbd
Europe	CE
	Nordic Swan tbd
USA/Canada	UL
	CSA
All	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
	Microsoft Operating Systems (HCT / HCL entry / WHQL)
Compliance link	https://sp.fujitsu-siemens.com/sites/certificates/default.aspx

Operating system

Operating system optional preinstalled	Microsoft® Windows Vista® Home Basic
	Microsoft® Windows Vista® Home Premium
	Microsoft® Windows Vista® Business 32bit
	Microsoft® Windows Vista® Business 64bit
	TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Linux
Operating system notes	Windows Vista® Premium Logo: min. 1 GB RAM necessary.

Additional Software

Additional software (preinstalled)	Nero Essentials (burning software)
Additional software (optional)	Recovery DVD (Windows® XP / Windows Vista®)
	Drivers & Utilities DVD (DUDVD) Windows Vista®
	Drivers & Utilities DVD (DUDVD) Windows® XP

	Keyboard on (Fujitsu Siemens Computers keyboard required)
	Thermal management
Spare part availability	5 years

Compatibility (references)

	DMI 2.0
	PC 2001
	WMI 1.5
	USB 2.0

Manageability

Manageability features	ASF 2.0 (Alert Standard Format)
	DeskUpdate Driver management
	DeskView Migrate (optional)
	DeskView Control (optional)
	PXE 2.1 Boot code
	BootP Boot Code including Bootmanage Administrator Software (tested)
	Wake up from S5 (off mode)
	Intrusion switch (optional)
	iAMT 5.0
Manageability type	DeskView 10.x client management including:
DeskView features	On/Offline remote client management
	Detailed system inventory management and reports
	BIOS Management
	Remote power management
	System notifications
	Advanced alerts (ASF implementation)
	Security Remote Control
	DeskView Helpdesk Integration
	WoL (Wake on LAN)
Manageability link	http://www.fujitsu-siemens.com/manageability
	http://www.altiris.com/fsc

Security

Physical security	Kensington Lock support
	Eye for padlock
	Optional: Integrated cabinet lock
System security	Boot sector virus protection
	Write protect option for the Flash EPROM
	Embedded security (TPM 1.2) - Infineon
	Control of all USB interfaces
	External USB interfaces detachable separately
	Boot protection for floppy disk / CD drive and write protection for floppy disk drive
	Control of external interfaces
User security	User and supervisor BIOS password
	SystemLock 2 BIOS SmartCard Security
	Hard disk password
	Optional: Access protection via external SmartCard reader
	Optional: Access protection via internal SmartCard reader

Serviceability

	FlexySlot
	EasyFix
	EasyChange for HDD
	EasyChange for optical drives
	EasyPull

Packaging information

Packaging dimension	500x290x540 mm
Max. quantity / pallet	24
Material - Weigth (g) Carton	1270 g
Material - Weigth (g) EPS / PS	210 g
Material - Weigth (g) PE	appr. 60 g
Packaging notes	printed user documentation is bleached in chlorine free process

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:
http://www.fujitsu-siemens.com/aboutus
Take back and Recycling information:
http://www.fujitsu-siemens.com/recycling