

Intel® Product Quick Reference Matrix Q3 2008

Intel® Channel Partner Program Letter

Technology Update

Intel® Modular Server Sales Guide

Intel® vPro™ Processor Technology Solution

<u>Desktop Platforms Matrix</u>

Mobile Platforms Matrix

<u>Server Platforms Matrix</u>

Intel® Desktop Processors

Intel® Desktop Boards and

Intel® Desktop Adapters

Intel® Graphics Product Matrix

Intel® Mobile Processors and

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Intel® Server Boards

Intel® Server Essentials

Intel® Server Chassis

Intel® Server Systems

Intel® Server Adapters

Intel® RAID Controllers

Intel® Management Modules

Intel® Storage Systems

Intel® Modular Server Products

Intel® Enabled Server Acceleration Alliance



All products and dates specified are preliminary based on current expectations and are subject to change without notice.

Availability in different channels may vary.



Dear Intel® Channel Partner Program member:

Intel is on the move (literally) in Q3 2008 with exciting developments in mobile platforms, a fresh mobile support environment to help you succeed with BTO notebook solutions, a new source in the channel for fully configured systems, expanded third-party alliances, and much more.

Go Farther

As you learned at the Intel Channel Conference Spring 2008, it's time to offer customers more compelling mobile solutions with the new Intel® Centrino®2 processor technology, featuring unprecedented dual-core processor performance for faster multitasking, high-bandwidth Wi-Fi* (802.11agn) and, for the first time, an optional integrated WiMAX*/Wi-Fi module. Offer your business customers enhanced security and manageability features with the new Intel Centrino 2 with vPro™ technology.

Another mobile innovation for Q3: Intel® mobile boards are joining the selection of standardized Common Building Blocks—optical drives, keyboards, hard disk drives, LCD monitors, power supplies, and more—that enable you to integrate winning BTO notebook solutions with confidence. And, Intel is collaborating with other leading technology providers to build a product and business environment that helps you create winning solutions with our latest mobile platforms.

Work Smarter

Intel continues to lead with the breakthrough performance and power efficiency of 45nm processing technology. From the quad-core Intel® Xeon® processor 5400 and 5200 series that deliver exceptional value in Intel® Modular Servers, to quad-core Intel® Core™2 Extreme processors for the ultimate high-end user experience, 45nm technology is the driving force across all Intel platforms.

'Buy Authorized'

Remember, the Intel products you see here can earn you real bottomline advantages as a Premier or Associate Member of the Intel® Channel Partner Program — but only when you purchase through an Intel® Authorized Distributor. Authorized Distributors are your assurance of genuine Intel products that are eligible for Advanced Warranty Replacement and other preferred support.

Get Connected

Intel is developing strong third-party alliances with other industry leaders that support Intel technology-based solutions. From PC security software trial installations that can earn you Intel Flex+ points to sponsor breakout sessions at Intel training events, Intel's third-party alliances are creating new opportunities for you to save on product packages, expand your knowledge, and earn bottom-line rewards.

We appreciate your commitment to Intel technology-based solutions and value your participation in the Intel Channel Partner Program. Our promise is to listen to your needs and to deliver on the technology, training, and total support that enable us both to reach our goals. Thanks for helping drive toward a stellar second half in 2008.

Store Julaleman Jm A. M.

STEVE DALLMAN,
VICE PRESIDENT AND
GENERAL MANAGER,
WORLDWIDE RESELLER
CHANNEL ORGANIZATION

TOM RAMPONE,
VICE PRESIDENT AND
GENERAL MANAGER,
INTEL CHANNEL PLATFORMS GROUP

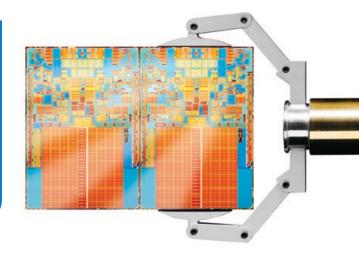


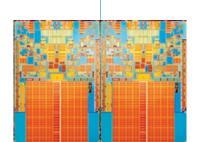
Enhanced Intel® Core™ Microarchitecture Energy Efficiency on 45nm

Delivering More Performance and Increased Energy Efficiency

INTEL® CORE™ MICROARCHITECTURE	NEW ON 45nm PROCESS TECHNOLOGY
Intel® Wide Dynamic Execution	Fast Radix-16 DividerEnhanced Intel® Virtualization Technology
Intel® Advanced Smart Cache	 Larger Caches: up to 6 MB, 12 MB
Intel® Smart Memory Access	Split-Load Cache EnhancementHigher Bus Speeds
Intel® Advanced Digital Media Boost	Intel® SSE4 InstructionsSuper Shuffle Engine
Intel® Intelligent Power Capability	 Deep Power Down Technology Enhanced Intel® Dynamic Acceleration Technology

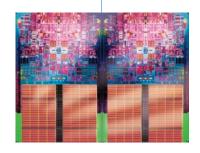
Same TDP





45nm Intel® Core™2 Quad processors Q9000 series

107mm 107mm 820m transistors Up to 12 MB cache



65nm Intel® Core™2 Quad processors Q6000 series

143mm 143mm 582m transistors 8 MB cache

Higher Performance Within the Same Power Envelope

45nm vs. 65nm Process Technology

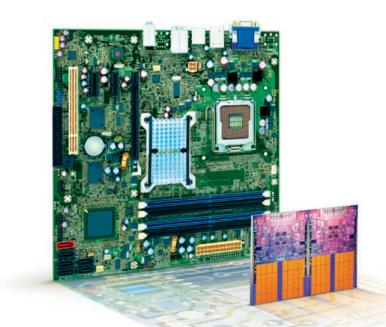
- ~2x improvement in transistor density
- 5x the reduction in leakage power
- >30% reduction in transistor switching power

Resulting Benefits

 Higher frequencies and larger cache within the same power and thermal envelopes as 65nm product

Intel® Desktop Boards

Supporting 45nm Intel® Core™2 Processors



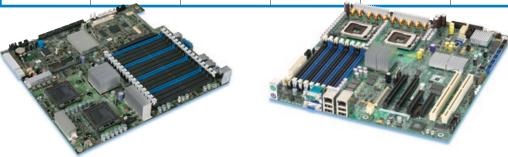
DX38BT	DP35DP	DG33TL1	DQ35JO¹ DQ35MP	DG33FB DG33BU	DG31PR
Intel® X38 Express Chipset	Intel® P35 Express Chipset	Intel® G33 Express Chipset	Intel® Q35 Express Chipset	Intel® G33 Express Chipset	Intel® G31 Express Chipset
Dual x16 Graphics	Intel® Fast Memory Access	Intel® Clear Video Technology	Intel® Active Management Technology	Intel® Clear Video Technology	Windows Vista* Premium
DDR3 support	DDR2 support	DDR2 support	DDR2 support	DDR2 support	DDR2 support
1333 MHz FSB	1333 MHz FSB	1333 MHz FSB	1333 MHz FSB	1333 MHz FSB	1333 MHz FSB



Intel® Server Boards

Supporting 45nm Intel® Xeon® Processors

S5400SF	S5000PSL S5000XSL	S5000VSA	S5000XVN	S5000PAL	SR1530CL	X38ML	S3200SH	MFS5000Si	SSR212MC2BR SSR212MC2RBR
Intel® 5400	Intel® 5000P/X	Intel® 5000V	Intel® 5000X	Intel® 5000P/X	Intel® 5000V	Intel® X38	Intel® 3200P/V	Intel® 5000P/X	Intel® 5000P/X
Chipset	Chipset	Chipset	Chipset	Chipset	Chipset	Express Chipset	Chipset	Chipset	Chipset
1600 MHz FSB for HPC	Volume Pedestal	Value Pedestal	x16 for High- Performance Graphics	Performance Rack	Value Rack	High Density	IPMI 2.0	Modular Server	High- Density Storage
FBD DDR2	FBD DDR2	FBD DDR2	FBD DDR2	FBD DDR2	FBD DDR2	DDR2	DDR2	FBD DDR2	FBD DDR2
support	support	support	support	support	support	support	support	support	support
1600 / 1333 /	1333 / 1066	1333 / 1066	1333 / 1066	1333 / 1066	1333 / 1066	1333 / 1066 /	1333 / 1066 /	1333 / 1066	1333 / 1066
1066 MHz FSB	MHz FSB	MHz FSB	MHz FSB	MHz FSB	MHz FSB	800 MHz FSB	800 MHz FSB	MHz FSB	MHz FSB



¹ With integrated DVI-D and VGA ports supporting dual independent display.
Intel, the Intel logo, Intel Core, and Xeon are trademarks of Intel Corporation in the U.S. and other countries.

^{*}Other names and brands may be claimed as the property of others.



Intel® Modular Server

Built on Intel® Multi-Flex Technology

Simple. Flexible. Exceptional Value.

In a confusing world of features and specifications, your customers may ask, "So what? How can this product help me solve my IT needs?"

The Intel® Modular Server is an integrated system built on Intel® Multi-Flex Technology that includes SAN storage, computing, and networking to simplify the growing demands of your IT infrastructure. The Intel Modular Server features:

- Up to six Server Compute Modules
- Integrated SAN storage
- Integrated Ethernet Switch Modules
- All hot-swappable components
- Virtual Presence remote management capabilities

As an integrated system, the Intel Modular Server has capabilities not found in the common rack server setup, including virtual drives that provide grow-as-you-go flexibility and Virtual Presence management for simplicity.





The Intel® Modular Server provides a solution with practical, day-to-day benefits.

BENEFIT	ENABLER
Increased IT Uptime	Redundant systems increase network uptime with failovers between servers and backups.
Easy Application Migration	Shared storage and virtual drives provide easy application and storage migration.
Grow-As-You-Go Flexibility	With options for up to 6 Server Compute Modules and up to 14 storage drives or 6 3.5" drives, purchase only as much as you need when you need it.
Greater Asset Utilization	Diskless Server Compute Modules allow for maximum use of system assets.
Unique Serviceability	Hot-swappable components don't require any cables or tools to service.
Ease of Management	One integrated system with end-to-end management lets you manage the entire system from a Web-based GUI interface.
Improved Data Protection	Centralized backup and virtual access allow for greater data protection.

QUALIFYING THE CUSTOMER	TARGET CUSTOMER PROFILE
How many servers do they plan to purchase?	Plans to purchase 2–3 servers this year.
How many end users does their IT infrastructure support?	Has a network that supports 50–500 employees.
Would they like to simplify their networking management needs?	Wants a network switch that is easy to deploy, configure, and maintain.
Are they interested in redundant systems to improve server uptime?	Needs greater application uptime with planned recovery options.
Are they interested in integrating their networking needs to free up valuable IT time?	Has an IT technician who has other responsibilities besides managing the network.
Do they want high-end capabilities without going beyond their budget?	Needs their IT to be as flexible as their company is while staying within budget.





Why should you care?

Intel® Server Products offer best-in-class service and support. What does that mean for you as a server reseller?

- Expand revenue opportunities with software upgrades, storage solutions, and service agreements.
- Achieve ease of integration and management with single management applications for servers, clients, and networks.
- Provide industry-leading performance while others follow.

For the small to midsize business, it isn't about what technology they can purchase—it's about solutions for their IT concerns.

Challenge We have four servers running e-mail, Web, accounting, and database applications. Lately, we've been short on storage space. The accounting server has just the right amount of storage, but the mail server is short, and the Web server has significantly more than it needs. When we purchased the servers, our options were limited by the number of disks that the servers could hold, as well as the minimum number required to create RAID 5 disk sets.

Scenario Four rack-based 2U servers that are three years old, each with four SCSI disk RAID 5 sets. The mail server needs more space, but we have already reached internal capacity. The Web server load has increased significantly and requires a more robust server.

Solution Upgrade to the Intel® Modular Server with four Server Compute Modules—one for each of these applications—and a stand-by server. The Intel Modular Server can provide level 5 RAID access for five servers with as few as three drives. Increasing storage space is as easy as adding drives and expanding the storage pool through the simple Web management interface. As new compute technology becomes available, upgrading a server will be a matter of sliding out the old server and inserting the new one. With server failover capabilities, major downtime due to server failures will be a thing of the past.



Total Cost of Ownership

Flexible

 With integrated shared storage and options for up to six servers, buy only the storage and computing capacity you need—and add more later as required.

No Rewiring

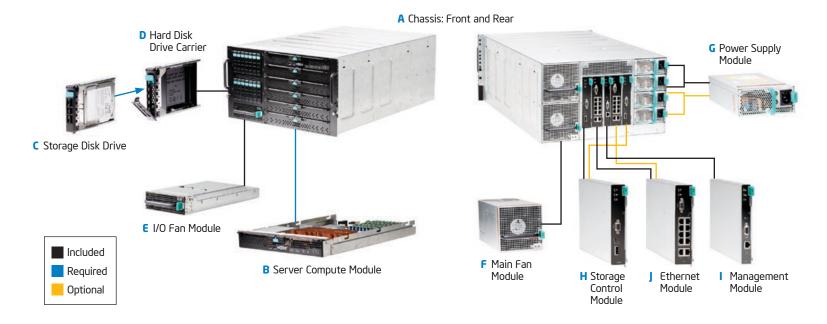
 Chassis power supplies can utilize 100-240 V power, eliminating special power requirements worldwide.

Built for Future Generations

 The chassis has been designed to support multiple generations of Server Compute Modules, allowing swift upgrades to the latest computing technology and increasing the longevity of the chassis.

Intel® Modular Server

Built on Intel® Multi-Flex Technology



A Chassis

- 1-6 Server Compute Modules
- Storage Drive Bay

B Server Compute Module (required)

- Model MFS5000SI
- Up to 2 Multi-Core Intel® Xeon® processors
- Contains 8 FBDIMM slots for up to 32 GB
- Supports an optional Mezzanine expansion card

C Storage Hard Disk Drive (required)

- Up to 14 2.5" SAS drives
- Up to 6 3.5" SAS/SATA drives
- D Hard Disk Drive Carriers (included)
- E Hot-Swappable I/O Fan Module (included)
- F Hot-Swappable Main Fan Module (included)
- **G Hot-Swappable Power Supply Module** (2 included, 2 optional)
 - 3 + 1 redundancy

H Storage Control Module

(1 included, 1 optional)

- Up to 2 Storage Control Modules for redundancy
- I Management Module (included)

J Ethernet Switch Module

(1 included, 1 optional)

- Up to 2 Ethernet Switch Modules
- Each module features 10/100/1000GbE full-duplex ports

For more information on the Intel® Modular Server and Intel® Multi-Flex Technology, visit www.intel.com/go/mft



Intel® vPro™ Processor Technology

Security and manageability on the chip.

Increase security and simplify management of desktop PCs with the hardware-assisted capabilities of Intel® vPro™ processor technology. Proactively secure desktops and improve manageability. Upgrade to the energy-efficient, dual-core performance of the latest Intel® Core™2 Duo processor. Now, with Intel vPro processor technology, you can help your customers shift resources from managing PCs to strategic initiatives that accelerate business success.

Why should you sell Intel® vPro™ processor technology business PCs?

It is easier to position and sell

Tell your customers about the clear advantages it has for businesses: advanced security and manageability features on the chip, powerful performance, cost effectiveness, and reliability.

It helps promote higher profits

Allows you to offer high-margin integration and managed support services for Intel vPro processor technology-based solutions.

It helps drive more sales

Leverage Intel vPro processor technology-based products as part of extended computing solutions and sell more servers, networking equipment, and software.

It helps generate more repeat business

Highlight the reliability, security, and manageability features of Intel vPro processor technology to help bring customers back for more technology purchases.

• It helps transform your business into a true solution provider

More easily build and offer integrated (HW/SW/service) solutions addressing the needs of your business customers.

For more information about Intel vPro processor technology and solutions, visit: www.intel.com/reseller/vpro www.intel.com/go/vpro http://msp.intel.com



Finding the Right Fit

One of the most costly aspects for small and midsized business—in terms of money, resources, and productivity is managing PCs, servers, and software on the network. Many critical IT tasks, such as patches, updates, and daily maintenance, must be performed during work hours when they interrupt employees or cause downtime. At the same time, you need to physically visit PCs and servers when systems cannot be located, diagnosed, repaired, or remediated down the wire. Intel® System Management Solution is specifically designed for IT professionals in small to midsize businesses who often face IT challenges similar to those of larger enterprises troubleshooting end-user problems, automating management tasks, managing multiple systems, and diagnosing and resolving IT problems—but who don't have the luxury of a full staff of specialists.

PCs with Intel® Centrino® with vPro™ technology Solution Spotlight: Intel® Centrino® with vPro™ technology with Intel® System Management Software with Microsoft* System Center Essentials 2007

IT infrastructure management for small to midsized businesses (SMB)

Intel® System Management Software with Microsoft* System Center Essentials 2007 not only manages Intel® vPro™ processor technology clients, it also manages servers, operating systems, applications, network devices—essentially the whole network.

Business challenge: SMB customers need an easyto-use, low-maintenance, and affordable solution for keeping their entire IT infrastructure healthy and running smoothly from a single console.

SMBs cannot afford to hire the entire range of skill sets they need to manage their IT infrastructure—but they still need reliable, healthy computing environments. Some of the challenges SMBs face include:

- Software and security updates to provide patch management and validation of patch deployment.
- Threat containment to isolate PCs using filters, and send alerts based on hardware event logs.
- System health monitoring to provide critical information about hardware via non-volatile memory and serverbased hardware sensors (for temperature issues)—even when the PC is powered off.
- Remote system diagnosis and repair to access hardware asset information and remotely watch to identify problems such as BIOS, drivers, and OS load.
- Patch, OS, and application deployment to verify that patches or applications are deployed and installed successfully, and to run an inventory to determine system readiness.
- Remote asset tracking, audit collection services, and software compliance to inventory software and files on PCs—even if the PC is off.

 Remote power management to ready PCs for employees and to power down PCs after business hours to save energy.

About Intel® System Management Software with Microsoft* System Center Essentials 2007

Intel System Management Software with Microsoft System Center Essentials 2007 includes a series of network management applications that allow you to view and control aspects of your computing environment from a single location and one interface. Depending on your existing setup, you may already have some of the system components in place, so you don't have to buy an entirely new set of components—it's about making your system work for you today!

Intel System Management Solution consists of the following components:

- Microsoft* System Center Essentials 2007
 Built specifically with small to midsize businesses in mind, Microsoft System Center Essentials 2007 provides a proactive and unified management solution that helps enable you to more efficiently secure, update, monitor, and troubleshoot your IT environments.
- Intel® System Management Software 2.0
 Intel System Management Software 2.0 includes a custom installer that simplifies the installation of Microsoft System Center Essentials 2007 and the Intel-developed management packs.
- Intel® Server Management Pack for Microsoft Windows*
- Intel® Modular Server Management Pack
- Intel® Active Management Technology (Intel® AMT)¹
 Management Pack

These management packs allow Microsoft System Center Essentials 2007 to take advantage of the unique built-in manageability benefits of servers using Intel® Xeon® processor-based server systems and PCs with

Intel and Microsoft-A Perfect Match

Co-developed by Intel and Microsoft, Intel® System Management Software with Microsoft* System Center Essentials 2007 is designed specifically for small and midsize businesses who often face IT challenges similar to those of larger enterprises. By using this solution, you can streamline tasks, keep servers and PCs up-to-date, and help boost security, compliance, and uptime.

Simple

Streamlines your IT management tasks through the life cycle of both servers and PCs—simplifying with one suite of tools that contain built-in expertise.

Secure

Accurately identifies and keeps your servers and PCs up-to-date with the latest BIOS, firmware, and patches; enables Microsoft System Center Essentials 2007 to take advantage of the unique built-in manageability benefits of servers with Intel® Xeon® processor-based server boards and PCs with Intel® Centrino® with vPro™ technology.

Smart

Specifically targeted for small and midsize businesses to increase your efficiency, reduce costs, and boost security features, compliance, and uptime.

Intel® Centrino® with vPro technology, and allow you to manage these systems regardless of Microsoft Windows availability or power state. If you have PCs with Intel Centrino with vPro technology, you can access various levels of remote configuration, from manual to fully automated. When PCs are managed with Microsoft System Center Essentials 2007, these new hardware-based capabilities can help speed up many processes, increase automation, and significantly reduce service costs across the infrastructure.

Intel® Centrino® with vPro™ technology with Intel® System Management Software with Microsoft* System Center Essentials 2007

More than just a dashboard with data, Microsoft* System Center Essentials 2007 provides expert knowledge for problem solving and tools for streamlining daily activities. Reports and tips help your customers efficiently maintain network health and security.

Simple. Secure. Smart.

Patch, OS, and Application Deployment FEATURES:

- Include templates and wizards to simplify the deployment process
- Schedule deployments for non-peak hours
- Run inventory checks to determine environment readiness for Microsoft Windows Vista* and Microsoft* Office 2007

BENEFITS:

- Minimize disruption to employees
- Update PCs even if they are turned off
- Verify if software is installed correctly

Remote Asset Tracking, Audit Collection Services, and Software Compliance

FEATURES:

- Enable more secure console redirection to remotely troubleshoot PCs, even if the OS is unresponsive or hardware has failed
- Redirect PC's boot device to another device, such as a remediation drive
- Make it possible to remotely watch as BIOS, drivers, and OS load to identify problems

BENEFITS:

- Eliminate most desk-side or server visits traditionally required to resolve OS problems and diagnose hardware failures
- Eliminate employee participation in diagnostics and repair processes
- Increase accuracy of remote diagnostics for software and hardware problems

Software and Security Updates FEATURES:

- Provide encrypted, more secure remote power up of PCs so they can receive critical patches or updates
- Let you automatically subscribe to security patches
- Include patch management and validation of patch deployment

BENEFITS:

- Eliminate virtually all manual updates
- Reduce windows of vulnerability
- Speed up security updates, patches, application, and OS deployment

Threat Containment

FEATURES:

- Enable proactive health monitoring of network traffic so you can take pre-specified actions
- With Intel® AMT¹ Management Pack, you can isolate PCs via a preset hardware-based filter
- With Intel® Server Management Pack for Microsoft Windows*, the system can send alerts based on hardware event logs

BENEFITS:

- Receive alerts when problems arise
- Minimize the impact of a security threat in the computing environment
- Mitigate attacks by removing hardware from the network, tracking the issues in log files, and closing ports or access to certain sites

Secure, Remote Power Up/Power Cycle and Power Management

FEATURES:

- Secure, remote power up of a PC for maintenance or other remote or off-hours service
- Power down PC off-hours to save energy

ENEFITS:

- Automate off-hours maintenance even for PCs that are powered off
- Reduce power bills

System Health Monitoring

FEATURES:

- Drill-down to specific hardware and software components in your environment
- Get critical information about the hardware in your environment
- Easy to navigate and use

BENEFITS:

- Proactively predict hardware and software failures
- More efficiently use IT resources

Remote System Diagnosis and Repair FEATURES:

- Use secure console redirection to remotely troubleshoot PCs, even if the OS is unresponsive or hardware has failed
- Access hardware asset information and persistent event log anytime

BENEFITS:

- Eliminate most desk-side or server visits traditionally required to resolve OS problems or diagnose hardware failures
- Increase accuracy of remote diagnostics for software and hardware problems

Summary

Addressing the IT challenges of small and midsize businesses, Intel and Microsoft have come together to provide you with a comprehensive, easy-to-use solution for managing your complete IT environment. Intel® System Management Software with Microsoft* System Center Essentials 2007 helps improve security, speeds up problem solving, and lowers your service costs. Depending on your existing setup, you may already have some of the system components, so why not get started today? Contact your local Intel or Microsoft dealer for more information. The Microsoft System Center Essential 2007—Single Server Edition is shipped for free on most Intel® Server Boards and System and can be upgraded to Small Network or Standard Edition by simply entering a license key.

Small Business versions (Single Server and Small Network)

Available from Intel and Intel distributors only, and designed especially for small businesses.

Want to give it a try?

You can access an online demo or download a 90-day trial version at: www.microsoft.com/systemcenter/essentials

For more information about Intel® System Management Solution, visit www.intel.com/go/servermanagement or contact your local authorized Intel dealer.

For more information about PCs with Intel® Centrino® with vPro™ technology, visit www.intel.com/go/businesspc

For more information about Microsoft* System Center Essentials 2007, visit www.microsoft.com/systemcenter/essentials or contact your local Microsoft reseller.

Intel® System Management Software with Microsoft* System Center Essentials 2007

The Intel® System Management Solution is offered in three different configurations. The Single Server Edition is included with select Intel® Xeon® processor-based server boards and integrated server products from Intel.

	Small Busin	ness Market	Mid-Market
	Single Server Edition	Small Network Edition	Standard Edition
MSRP	Free ²	\$599.00 USD	\$1999.00 USD
Number of Servers Supporte	1 d	Up to 5	Up to 30 ³
Number of Clients (PCs) Supported	0	15	Up to 500 ³
Client Access License (CAL)	Not available	Not available	\$100 USD/ Server and \$20 USD/client
Availability	Intel authorized dealers	Intel authorized dealers	Intel and Microsoft authorized dealers

Features and Functions of Microsoft* System Center Essentials 2007 and the Intel* Management Packs are dependent on the features and functions available on the server and client hardware and the loaded software and operating systems. Not all features and functions are available on all products and may require Intel* AMT or IPMI technologies for additional functionality. Intel. the Intel logo. Intel Core. Core Inside. Xeon. Intel vPro. Intel vPro.

Intel® Active Management Technology (Intel® AMT) requires the platform to have an Intel AMT-enabled chipset, network hardware, and software, as well as connection with a power source and a corporate network connection. Setup of Intel AMT requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications or implementation of new business processes. With regards to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating, or powered off. For more information, see www.intel.com/technology/platform-technology/intel-amt/.

² Included with select server boards or systems

³ Additional Client Access Licenses (CAL) may be required.

^{*}Other names and brands may be claimed as the property of others.



Better Together: Recommend the Best Intel® Processor and Intel® Desktop Board for Your Digital Home Customer Desktop Consumer Matrix

USAGE	RECOMMENDED INTEL® PROCESSORS1	RECOMMENDED INTEL® DESKTOP BOARDS	SELL-TO MESSAGE	NO. OF CORES	MAX. FREQ.²	MAX. FRONT SIDE BUS	L2 CACHE³
Extreme Gaming	Core"2 Extreme maide QX9000 series	EXTREME Series Desktop Boards DX48BT2	Customer is looking for unrivaled competitive gaming and/or media performance.	4	3.20 GHz	1600 MHz	12 MB
Gaming and HD	Core 2 Quad mside Q9000/Q6000 series	MEDIA Series Desktop Boards DG45ID/DG45FC	Customer enjoys visually intense gaming and/or high-definition media.	4	3 GHz	1333 MHz	12 MB
Everyday Performance	Core 2 Duo mside E8000/E7000 series	CLASSIC Scries Desktop Boards DG43NB/DG43TF	Customer creates and stores photos, videos, and music on their PC.	2	3.33 GHz	1333 MHz	6 MB
Simple Multitasking	Pentium Dust-core inside: E2000 series	ESSENTIAL Scries Desktop Beards DG31GL/D945GCNL	Customer wants a PC for a variety of simple tasks.	2	2.40 GHz	800 MHz	1 MB
Just the Basics	Celeron Dual-Core inside: E1000 series	ESSENTIAL Scries Desktop Boards D945GCPE	Customer just wants a basic dual-core PC at our lowest price point.	2	2 GHz	800 MHz	512 KB
	INTI	RODUCING THE INTEL	.° ATOM™ PROCESSOR	FOR NETTOP	S		
Internet Centric	Atom mside 200 series	ESSENTIAL Series Desktop Boards D945GCLF	Customer is looking for an affordable secondary device to access the Internet in the home.	1	1.60 GHz	533 MHz	512 KB

Better Together: Recommend the Best Intel® Processor and Intel® Desktop Board for Your Business Customer

Desktop Business Matrix

FOR USER TYPE	CURRENT / FUTURE USAGE	BENEFITS	RECOMMENDED INTEL® PROCESSORS®	NO. OF CORES	MAX. FREQ ²	MAX. FRONT SIDE BUS	L2 CACHE ³	PROOF POINTS	RECOMMENDED INTEL® DESKTOP BOARDS
Professional	Software patch deployment Advanced diagnostics and repair High-impact business productivity	Enables the Managed Service Provider to provide professional 24x7 technical support for much less than what it would cost you to hire more full-time staff Securely and remotely wake up, update, and shut down systems, even if the PC is off Adds more protection against viruses and malicious attacks with programmable system defense filters	Core 2 VPro naside - E8000 Series	2	3.33 GHz	1333 MHz	6 MB	Helps ensure more accurate automatic hardware asset inventory Reduces the need for hardware-related desk-side visits Approximately 150% faster running typical office productivity benchmarks ⁴	EXECUTIVE Series Desktop Boards DQ45CB/DQ45EK
Power	Professional content development Advanced modeling and simulations Building powerful Internet applications	Industry-leading performance for Windows Vista*, 64-bit applications, and next generation software Great graphics, excellent for the Vista Aero* graphics interface	Core 2 Quad nasde Q9000/Q6000 Series	4	3 GHz	1333 MHz	12 MB	Up to 2.75x faster on office productivity benchmarks compared to previous-generation installed base ⁵ Up to 9x faster on advanced Microsoft Excel* calculations compared to previous-generation installed base ⁵	EXECUTIVE Series Desktop Beards DQ45CB/DQ45EK
Advanced	Cross-functional / boundary productivity and collaboration Advanced content development Anti-virus / spam, spyware, and data backup	Industry leading-performance with improved graphics performance Improved energy efficiency without sacrificing performance	Core 2 Duo nside E8000 series	2	3.33 GHz	1333 MHz	6 MB	Over 90% faster when mutitasking than prior-generation products ⁵ Over 90% faster performance on compute-intensive applications than prior-generation products ⁵	CLASSIC Series Desktop Troads
Evolving	Cross-functional productivity Streamlining business process Communications Anti-virus and data backup VoIP	Protection from viruses and data loss Multitasking responsiveness Quality VoIP	Core 2 Duo maide E7000 Series	2	2.53 GHz	1066 MHz	3 MB	G2% faster image content video encoding than prior-generation products T7% faster productivity benchmark than prior-generation products Table 17% Table 17	CLASSIC Series Desktop Boards DG43NB/DP43TF
Basic	Personal productivity Core content creation Essential communication Basic anti-virus	Protection from viruses Value and reliability	Pentium Dual-Care Inside E2000 Series	2	2.40 GHz	800 MHz	1 MB	28% faster spreadsheets than prior- generation products ⁷ 27% faster productivity benchmark than competition ⁹	essential Series Desitop Boards DG31GL

- ¹ Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number/ for details.
- ² Processor frequency as shown represents maximum frequency specification for the respective processor number family.
- ³ Intel® Core™2 Duo and Core™2 Quad processors employ Intel® Advanced Smart Cache.
- 4 (Desktop) Pre-production Intel® Core® 2 Duo Processor E8200 (6 MB L2, 2.66 GHz, 1333 MHz FSB) and Pre-Production Intel® Core® 2 Quad Processor Q9450 (6 MBx2 L2, 2.66 GHz, 1333 MHz FSB) on Intel® Desktop Board DQ35)0C, Intel® Chipset Software Installation Rile 8. 30.1013, 2x1 GB dual-channel Micron® PC2-6400 DDR2 800 5-5-5-15. Intel® Pentium® 4 Processor 530 (1 MB L2, 3.00 GHz, 800 MHz FSB) on Intel® Desktop Board D945GCL, Intel® GMA950 Express Chipset, Intel® Chipset Software Installation File 8.1.1.1010, 2x1 GB dual-channel Micron® PC2-6400 DDR2 667 5-5-5-15. Common to all platforms: Seagate® 320 GB Barracuda 7200.10 NCQ Serial ATA 7200 RPM, Windows Vista® Ultimate 32bit. Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. (Mobile) Based on measured Intel® Pentium® M 780 (2 MB L2, 2.26 GHz, 533 MHz FSB) and estimated Intel® Pentium® M 770 (2 MB L2, 2.13 GHz, 533 MHz FSB) versus Pre-Production Mobile Intel® Core® Duo Processor T8100 (3 MB L2, 2.10 GHz, 800 MHz FSB) on Intel® Matanzas Customer Reference Board, Intel® Chipset Software Installation File 8.2.0.012, 2x1 GB dual-channel Micron® PC2-5300 DDR2 800 5-5-5-15, Hitachi® 100 GB TravelStar® Serial ATA 7200 RPM, Windows Vista Ultimate 32bit.
- 5 (Desktop) Pre-production Intel* Core**2 Duo Processor E8200 (6 MB L2, 2.66 GHz, 1333 MHz FSB) and Pre-Production Intel* Core**2 Quad Processor Q9450 (6 MBx2 L2, 2.66 GHz, 1333 MHz FSB) on Intel* Desktop Board DQ35JOE, Intel* Chipset Software Installation File 8. 30.1013, 2x1 GB dual-channel Micron* PC2-6400 DDR2 800 5-5-5-15. Intel* Pentium* 4 Processor 530 (1 MB L2, 3.00 GHz, 800 MHz FSB) on Intel* Desktop Board D945GCL, Intel* GMA950 Express Chipset, Intel* Chipset Software Installation File 8.1.1.1010, 2x1 GB dual-channel Micron* PC2-6400 DDR2 667 5-5-5-15. Common to all platforms: Seagate* 320 GB Barracuda 7200.10 NCQ Serial ATA 7200 RPM. Windows Vista* Ultimate 32bit.
- ⁶ Source: Intel. Configuration: Intel® Core™2 Duo E8200 (2.66 GHz, 6 MB L2, 1333 MHz FSB), E7200 (2.53 GHz, 3 MB L2, 1066 MHz FSB), E4600 (2.40 GHz, 2 MB L2, 800 MHz FSB) on Intel® Desktop Board DQ35JO with Intel® Graphics Media Accelerator 3100 onboard graphics subsystem, Intel® Chipset INF 8.4.0.1016, 2x512 MB dual-channel Micron® DDR2-667 5-5-5-18, Seagate® 320 GB Barracuda® NCO Serial ATA 7200 RPM. Windows Vista® Ultimate 32bit.
- Intel* Pentium* D processor 925 (3 GHz, 800 MHz FSB, 2x2 MB L2 Cache), Intel* Pentium* Dual-Core processor E2160 (1.80 GHz, 800 MHz FSB, 1 MB L2 Cache) and both with Intel* Desktop Board D946GZIS, Intel* Graphics Media Accelerator 950, Chipset Install file 8.1.1.1010, Micron* 2x512 MB DDR2 667 5-5-5-15, Seagate* Barracuda* 320 GB NCQ SATAZ 7200RPM, Windows Vista* Ultimate RTM Build 6000 NTFS. AMD* Athlon* 64 X2 3800+ (2 GHz, 2x512 KB L2 Cache), Asus* M2A-VM, Integrated ATI* X1200 Series, Micron 2x512 MB DDR2 667 5-5-5-15, Seagate Barracuda 320 GB NCQ SATAZ 7200RPM, Windows Vista Ultimate RTM Build 6000 NTFS. Run description: Microsoft Excel* 2007 executing approximately 28,000 sets of calculations using common calculations and functions.

⁸ Source: Intel. Configurations: Intel⁸ Lore™2 Duo processor E6700 (2.66 GHz, 4 MB shared L2, 1066 MHz FSB), Intel⁸ Core™2 Duo processor E6420 (2.13 GHz, 4 MB shared L2, 1066 MHz FSB), Intel® Core™2 Duo processor E4400 (2.0 GHz, 2 MB shared L2, 800 MHz FSB). Intel® Core™2 Duo processor €4300 (1.80 GHz, 2 MB shared L2, 800 MHz FSB). Intel® Pentium® dual-core processor E2160 (1.80 GHz, 1 MB shared L2, 800 MHz FSB), Intel® Pentium® D processor 945 (3.40 GHz, 2x2 MB total L2, 800 MHz FSB), Intel® Pentium® D processor 925 (3 GHz. 2x2 MB total L2, 800 MHz FSB), Processors as listed above, Intel® (for Conroe-based parts) Intel® Q965 Express Chipset, Intel® Desktop Board DQ965GF, Chipset Install file 8.1.1.1010, BIOS version C096510J.86A.5882, Intel® GMA 3000 graphics, Graphics Driver: Intel® G965 15.2.3.1244, Micron* 2x1 GB DDR2-667 5-5-5-15, Seagaté* Barracuda* 320 GB SATA 7200 RPM, Hard Disk Driver: Intel® Matrix Storage driver 6.2.1.1002 PV, Windows Vista* x86 Ultimate RTM build 6000 (for Netburst based parts) Intel® GMA 950 Express Chipset, Intel® Desktop Board D945GPM, Chipset Install File 8.1.1.1010, BIOS version NT94510I.86A.4076 Intel GMA 3000 graphics, Graphics Driver: Intel G965 15.2.3.1244, Micron 2x1 GB DDR2-667 5-5-5-15, Seagate Barracuda 320 GB SATA 7200 RPM, Hard Disk Driver: Intel® INF 8.1.1.1010, Windows Vista x86 Ultimate RTM build 6000, Enhanced Intel SpeedStep® Technology disabled. AMD: AMD: AMD: AMD: Athlon* 64 X2 6000+ (3 GHz, 2x1 MB L2), AMD* Athlon* 64 X2 4200+ (2.20 GHz, 2x512 KB L2), AMD* Athlon* 64 X2 3800+ (2 GHz, 2x512 KB L2), ATI* RS690G, ASUS* M2A-VM, Chipset Install File ATI* Catalyst* 7.4. BIOS Asus* M2A-VM 402. ATI* Radeon* Express 1250. Graphics driver ATI Catalyst 7.4. Micron 2x1 GB DDR2-667 5-5-5-15, Seagate Barracuda 320 GB SATA 7200 RPM Hard Disk Driver: ATI Catalyst 7.4, Windows Vista* Ultimate 32 RTM build 6000, AMD* Cool n' Quiet disabled. Test: SysMark*07.

Performance tests and ratings are measured using specific computer systems and/or components, and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit www.intel. com/performance/ or call (U.S.) 1-800-628-8686 or 1-916-356-3104.

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Recommend the Best Mobile Technology for Your Digital Home Customer

Mobile Consumer Matrix

USAGE	RECOMMENDED INTEL® PROCESSORS ¹	SELL-TO TIPPING POINT	NO. OF CORES	ENHANCED WIRELESS	BATTERY LIFE
Extreme Gaming	Core 2 Extreme Inside: QX9000/X9000 series	Unrivaled mobile gaming and/or media performance	4/2	N/A	0
Gaming and HD	Centrino 2 Includes Intel® Core™2 Duo T9000 series	Enjoy visually intense gaming and high-definition media	2	$\left(\left(\left(\begin{array}{c} \circ \\ \end{array}\right)\right)\right)$	0
Everyday Performance	Core 2 Duo Inside P9000/P8000 series	Create and store photos, videos, and music at home or on the go	2	N/A	0
Just the Basics	Celeron inside. 500 series	Basic mobile computing at our lowest price point	1	N/A	

Recommend the Best Mobile Technology for Your Business Customer

Mobile Business Matrix

USAGE	RECOMMENDED INTEL® PROCESSOR® TECHNOLOGY	POSITIONING	BENEFITS AND USAGES	NO. OF CORES	ADDITIONAL FEATURES	PROOF POINTS
Professional	Includes Intel* Core**2 Duo Q9000/T9000/P9000/ P8000 series	Intel's best notebook technology for business, delivering industry-leading performance ¹ and energy efficiency with hardware-assisted technologies that can help businesses enhance security and reduce overall support costs.	 Anywhere access to business systems Increased protection from viruses, spam, spyware, and data loss Minimal disruptions due to PC issues Advanced diagnostics and repair High-impact business productivity 	4/2	 Intel® vPro™ Technology Enhanced Wireless Increased Battery Life Outstanding Graphics 	 Advanced security and system manageability features to significantly reduce maintenance downtime and reduce the need for desk-side visits by up to 75%^{2,3} Includes wireless and battery benefits of Intel® Centrino®2 processor technology and performance benefits of the Intel® Core™2 Duo processor
Advanced	Includes Intel* Core™2 Duo Q9000/T9000/P9000/ P8000 series	Smart, powerful mobile technology that offers top-tier performance, longer-lasting battery life, and the latest integrated wireless technology.	 Anywhere access to the Internet Maximum responsiveness while multitasking Optimal battery life Cross-functional collaboration Multimedia content development 	4/2	 Enhanced Wireless Increased Battery Life Outstanding Graphics 	 Integrated energy-saving components optimized to prolong battery life Up to 5x better wireless performance including up to 2x greater range⁴ Up to 2x faster performance when loading frequently used, memory-intensive applications⁵ Includes performance benefits of the Intel® Core™2 Duo processor
Basic	Core 2 Duo Inside P9000/P8000 Series	Provides leading, energy- efficient, multi-core performance.	 Performance for increased productivity while multitasking Advanced content development and editing Essential communication 	2		 Up to 40% faster on office productivity benchmarks⁶ Over 2.5x faster on advanced spreadsheet calculations⁷ Over 3x faster video editing⁷
Entry	Celeron inside 500 series	A low-cost solution for basic computing from a trusted brand.	 Great for a first-time PC experience Perfect for handling individual activities, such as e-mail, Internet, and managing budgets 	1		A balanced level of proven technology and excellent value Optimized for basic computing—Web surfing, e-mail, and word processing

- ¹ Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number/ for details.
- 2 (NOTEBOOK OR X_CLIENT) Intel* Active Management Technology (Intel* AMT) requires the computer system to have an Intel AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. Setup requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications of implementation of new business processes. With regard to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating, or powered off. For more information, see www.intel.com/technology/manage/iamt/.
- 3 Results shown are from the 2007 EDS Case Studies with Intel® Centrino® Pro processor technology, 3rd party audit commissioned by Intel, of various enterprise IT environments. The studies compare test environments of Intel Centrino Pro processor technology equipped PCs vs non-Intel® vPro™ processor technology environments. Tested PCs were in multiple OS and power states to mirror a typical working environment. Actual results may vary. The study is available at www.intel.com/ypro and www.eds.com.
- ⁴ Up to 2x greater range and up to 5x better performance with optional Intel® Next-Gen Wireless N technology enabled by 2x3 Draft N implementations with 2 spatial streams. Actual results may vary based on your specific hardware, connection rate, site conditions, and software configurations. For more information, see www.intel.com/performance/mobile/index.htm. Also requires a Connect with Intel® Centrino® processor technology certified wireless n access point. Wireless n access points without the Connect with Intel® Centrino processor technology identifier may require additional firmware for increased performance results. Check with your PC and access point manufacturers for details.
- 5 Tests run on customer reference boards and preproduction latest generation Intel® Centrino® processor technology with optional Intel® Turbo Memory enabled against like systems without Intel Turbo Memory. Results may vary based on hardware, software and overall system configuration. All tests and ratings reflect the approximate performance of Intel products as measured by those tests. All testing was done on Microsoft Vista® Ultimate (build 6000). Application load and runtime acceleration depend on Vista®s preference to pre-load those applications into the Microsoft® ReadyBoost® cache. Boot-time performance depends on BIOS and POST execution times as well as hard drive performance. Power savings will depend upon the system power management settings as well as the specific hard drive used. See www.intel.com/performance/mobile/benchmarks.htm for more information.
- 6 (Mobile) Based on measured Intel* Pentium* M 780 (2 MB L2, 2.26 GHz, 533FSB) and estimated Intel Pentium M 770 (2 MB L2, 2.13 GHz, 533 MHz FSB) versus Pre-Production Mobile Intel* Core*2 Duo Processor T8100 (3 MB L2, 2.10 GHz, 800 MHz FSB) on Intel Matanzas Customer Reference Board board, Intel* Chipset Software Installation File 8.2.0.012, 2x1 GB dual-channel Micron* PC2-5300 DDR2 800 5-5-5-15, Hitachi* 100 GB TravelStar* Serial ATA 7200 RPM, Windows Vista* Ultimate 32bit.

7 (Desktop and Mobile) (Desktop) Pre-production Intel® Core®2 Duo Processor E8200 (6 MB L2, 2.66 GHz, 1333 MHz FSB) and Pre-Production Intel® Core®2 Quad Processor Q9450 (6 MBx2 L2, 2.66 GHz, 1333 MHz FSB) on Intel® Desktop Board DQ35]0E, Intel® Chipset Software Installation File 8. 30.1013, 2x1 GB dual-channel Micron* PC2-6400 DDR2 800 5-5-5-15. Intel® Pentium® 4 Processor 530 (1 MB L2, 3.00 GHz, 800 MHz FSB) on Intel® Desktop Board D945GCL, Intel® GMA950 Express Chipset, Intel Chipset Software Installation File 8.1.1.1010, 2x1 GB dual-channel Micron* PC2-6400 DDR2 667 5-5-5-15. Common to all platforms: Seagate* 320 GB Barracuda 7200.10 NCQ Serial Afa 7200 RPM, Windows Vista* Ultimate 32bit. Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. (Mobile) Based on measured Intel® Pentium® M 780 (2 MB L2, 2.26 GHz, 533FSB) and estimated Intel Pentium M 770 (2 MB L2, 2.13 GHz, 533FSB) versus Pre-Production Mobile Intel Core 2 Duo Processor T8100 (3 MB L2, 2.10 GHz, 800 MHz FSB) on Intel® Matanzas Customer Reference Board board, Intel Chipset Software Installation File 8.2.0.012, 2x1 GB dual-channel Micron* PC2-5300 DDR2 800 5-5-5-15, Hitachi* 100 GB TravelStar* Serial Afa 7200 RPM, Windows Vista Ultimate 32bit.

Performance tests and ratings are measured using specific computer systems and/or components, and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit www.intel.com/performance/ or call (U.S.) 1-800-628-8686 or 1-916-356-3104.

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Better Together: Recommend the Best Intel® Xeon® Processor and Intel® Chipset Server Business Matrix



SEGMENT	POSITIONING	RECOMMENDED CPU SERIES ¹	MAX. SOCKETS PER SYSTEM	NO. OF CORES	MAX. FREQ. ²	POWER	MAX. FRONT SIDE BUS	L2 CACHE	RECOMMENDED INTEL® CHIPSET
Expandable Leading Performance, Reliability, and Scalability TARGET USAGE: Optimized for large enterprises, data centers, and server consolidation RECOMMENDED CONFIGURATION: 4+ CPUS	Best	Intel® Xeon® 7300 Series	4	4	2.93 GHz	80-130 W	1066 MHz	8 MB	Intel® 7300 Chipset
Efficient Performance Energy Efficient, Cost Effective TARGET USAGE: Optimized for General Purpose Servers	Best	Intel® Xeon® 5400 Series	2	4	3.16 GHz	80-120 W	1333 MHz	12 MB	Intel® 5000P Chipset
(e-mail, Web, file, business applications) and IT infrastructure virtualization RECOMMENDED CONFIGURATION: 2 CPUs	Good	Intel® Xeon® 3300 Series	1	4	3 GHz	95 W	1333 MHz	Up to 12 MB	Intel® 3200 Chipset
Entry Cost Optimized	Best	Intel® Xeon® 5400 Series	2	4	3.16 GHz	80-120 W	1333 MHz	Up to 12 MB	Intel® 5000V or Intel® 5100
TARGET USAGE: Small businesses <100 employees,	Dest	Intel® Xeon® 5200 Series	2	2	1.86 GHz	65 W	1066 MHz	Up to 6 MB	Chipset
Basic needs (e-mail, network, file/print) RECOMMENDED CONFIGURATION: 1-2 CPUs	Better	Intel® Xeon® 3300 Series	1	4	2.83 GHz	95 W	1333 MHz	Up to 12 MB	Intel® 3200 Chipset
	Good	Intel® Xeon® 3100 Series	1	2	3.16 GHz	65 W	1333 MHz	6 MB	Intel® 3200 Chipset

Better Together: Recommend the Best Intel® Xeon® Processor and Intel® Chipset Server Platforms Matrix

SEGMENT	POSITIONING	RECOMMENDED CPU SERIES ¹	MAX. CPUs PER SYSTEM	NO. OF CORES	MAX. FREQ. ²	POWER	MAX. FRONT SIDE BUS	L2 CACHE	RECOMMENDED INTEL® CHIPSET
HPC Optimized for High- Performance Analytics	Best	Intel® Xeon® 5400 Series	2	4	3.16 GHz	80-120 W	1600 MHz	12 MB	Intel® 5400 Chipset
TARGET USAGES: Bandwidth-intensive applications, High-Performance Clusters, and complex computation	Better	Intel® Xeon® 5400 Series Low Voltage SKUs (L54xx)	2	4	3.16 GHz	50-120 W	1333 MHz	12 MB	Intel® 5100 Chipset
	Good	Intel® Xeon® 5200 Series Low Voltage SKUs (L52xx)	2	2	3.40 GHz	40-80 W	1600 MHz	6 MB	Intel® 5100 Chipset
	Low-cost HPC	Intel® Xeon® 3300 Series	2	4	2.83 GHz	95 W	1333 MHz	Up to 12 MB	Intel® 3200 or Intel® X38 Chipset
Workstation Optimized for Complex Analysis/Visualization TARGET USAGES: Graphics rendering,	Best	Intel® Xeon® 5400 Series	2	4	3 GHz	80-130 W	1600 MHz	12 MB	Intel® 5400 Chipset
multimedia content development, engineering applications (CAD/CAM), software development	Good	Intel® Xeon® 5400 Series	2	4	3.16 GHz	50-120 W	1333 MHz	12 MB	Intel® 5400 Chipset

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¹ Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number/ for details.

² Processor frequency as shown represents maximum frequency specification for the respective processor number family.



INTEL® DESKTOP PROCESSORS













PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	UPC CODE
Intel® Core™2 Extreme Quad-Core Processor QX9775	BX80574QX9557	3.20 GHz	1600 MHz	12 MB L2 shared	LGA771	7 35858 19945 2
Intel Core 2 Extreme Quad-Core Processor QX9770	BX80569QX9770	3.20 GHz	1600 MHz	12 MB L2 shared	LGA775	7 35858 19756 4
Intel Core 2 Extreme Quad-Core Processor QX9650	BX80569QX9650	3 GHz	1333 MHz	12 MB L2 shared	LGA775	7 35858 19802 8
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	UPC CODE
Intel® Core™2 Quad Processor Q9650	BX80569Q9650	3 GHz	1333 MHz	12 MB L2 shared	LGA775	7 35858 20342 5
Intel Core 2 Quad Processor Q9550	BX80569Q9550	2.80 GHz	1333 MHz	12 MB L2 shared	LGA775	7 35858 19738 0
Intel Core 2 Quad Processor Q9450	BX80569Q9450	2.66 GHz	1333 MHz	12 MB L2 shared	LGA775	7 35858 19849 3
Intel Core 2 Quad Processor Q9400	BX80580Q9400	2.66 GHz	1333 MHz	6 MB L2 shared	LGA775	7 35858 20307 4
Intel Core 2 Quad Processor Q9300	BX80580Q9300	2.50 GHz	1333 MHz	6 MB L2 shared	LGA775	7 35858 19975 9
Intel Core 2 Quad Processor Q6700	BX80562Q6700	2.66 GHz	1066 MHz	8 MB L2 shared	LGA775	7 35858 19541 6
Intel Core 2 Quad Processor Q6600	BX80562Q6600	2.40 GHz	1066 MHz	8 MB L2 shared	LGA775	7 35858 19156 2

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	UPC CODE
Intel® Core™2 Duo Processor E8600	BX80570E8600	3.33 GHz	1333 MHz	6 MB L2 shared	LGA775	7 35858 20306 7
Intel Core 2 Duo Processor E8500	BX80570E8500	3.16 GHz	1333 MHz	6 MB L2 shared	LGA775	7 35858 19963 6
Intel Core 2 Duo Processor E8400	BX80570E8400	3 GHz	1333 MHz	6 MB L2 shared	LGA775	7 35858 19964 3
Intel Core 2 Duo Processor E8200	BX80570E8200	2.66 GHz	1333 MHz	6 MB L2 shared	LGA775	7 35858 19965 0
Intel Core 2 Duo Processor E7300	BX80571E7300	2.66 GHz	1066 MHz	3 MB L2 shared	LGA775	7 35858 20353 1
Intel Core 2 Duo Processor E7200	BX80571E7200	2.53 GHz	1066 MHz	3 MB L2 shared	LGA775	7 35858 20192 6
Intel Core 2 Duo Processor E6850	BX80557E6850	3 GHz	1333 MHz	4 MB L2 shared	LGA775	7 35858 19445 7
Intel Core 2 Duo Processor E6750	BX80557E6750	2.66 GHz	1333 MHz	4 MB L2 shared	LGA775	7 35858 19446 4
Intel Core 2 Duo Processor E6550	BX80557E6550	2.33 GHz	1333 MHz	4 MB L2 shared	LGA775	7 35858 19447 1
Intel Core 2 Duo Processor E4700	BX80557E4700	2.60 GHz	800 MHz	2 MB L2 shared	LGA775	7 35858 20018 9
Intel Core 2 Duo Processor E4600	BX80557E4600	2.40 GHz	800 MHz	2 MB L2 shared	LGA775	7 35858 19769 4
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	UPC CODE
Intel® Pentium® Dual-Core Processor E2220	BX80557E2220	2.40 GHz	800 MHz	1 MB L2 shared	LGA775	7 35858 20138 4
Intel Pentium Dual-Core Processor E2200	BX80557E2200	2.20 GHz	800 MHz	1 MB L2 shared	LGA775	7 35858 19978 0
Intel Pentium Dual-Core Processor E2180	BX80557E2180	2 GHz	800 MHz	1 MB L2 shared	LGA775	7 35858 19636 9
Intel Pentium Dual-Core Processor E2160	BX80557E2160	1.80 GHz	800 MHz	1 MB L2 shared	LGA775	7 35858 19374 0
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	UPC CODE
Intel® Celeron® Dual-Core Processor E1400	BX80557E1400	2 GHz	800 MHz	512 KB L2	LGA775	7 35858 20189 6
Intel Celeron Dual-Core Processor E1200	BX80557E1200	1.60 GHz	800 MHz	512 KB L2	LGA775	7 35858 19953 7
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	UPC CODE
Intel® Celeron® Processor 440	BX80557440	2 GHz	800 MHz	512 KB L2	LGA775	7 35858 19365 8
Intel Celeron Processor 430	BX80557430	1.80 GHz	800 MHz	512 KB L2	LGA775	7 35858 19366 5

Please refer to the product quick reference matrix located on Intel Reseller Center: www.intel.com/reseller

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INTEL® DESKTOP BOARDS

Intel® Desktop Boards Designed for performance.













			ore 2		Core	inside"	
ь.	1204	1000	1222	1000	1222	1000	4.5

	Desktop Board	Form Factor	Processor Technology	Memory	Integrated Graphics	PCle* x16	PCle x1	PCI	PATA (devices)	SATA	eSATA	RAID	Audio 2.0	USB	1394	1600 FSB		1066 FSB				1066 FSB	800 FSB	800 FSB	800/533 FSB	533 FSB
	D5400XS	EATX		FBDIMM 800		4		2		6	2	•	10-ch	6+4	1+1	•	•	•								
ē	DX48BT2	ATX		DDR3 1600		3		2	1(2)	6	2	•	10-ch	8+4	1+1	•	•	•	•	•	•	•	•	•		
Extreme	DX38BT	ATX		DDR3 1333		3		2	1(2)	6	2	•	10-ch	8+4	1+1		•	-	•	•	•	•	•	•		
û	D975XBX2	ATX		DDR2 800		3		2	1(2)	8	1	•	8-ch	4+4	1+1			-		•		•	•	•	•	
	DP45SG	ATX		DDR3 1333		2	2	3		5	1	•	8-ch	6+6	1+1		•	•	•	•	•	•	•	•	•	
Media	DP35DP	ATX	Viiv	DDR2 800		1	3	3	1(2)	6	1	•	8-ch	6+6	1+1				•	•	•	•	•	•	•	
Σ	DG33TL	μATX	Viiv	DDR2 800	DVI+VGA	1	2	1	1(2)	6	1	•	8-ch	6+6	1+1				•	•	•	•	•	•	•	
ě	DQ35J0	μATX	vPro	DDR2 800	DVI+VGA	1	2	1	1(2)	6	1	•	4-ch	6+6	1+1				•	•	•	•	•	•	•	
Executive	DQ35MP	μATX	vPro	DDR2 800	VGA	1	2	1	1(2)	6	1	•	4-ch	6+6					•	•	•	•	•	•	•	
ă	DQ965GF	μATX	vPro	DDR2 800	VGA	1	1	2	1(2)	6		•	6-ch	6+4	1+1					•		•	•	•	•	
	DG35EC	μATX		DDR2 800	DVI+VGA	1	2	1	1(2)	4			6-ch	6+4	1+1				•	•	•	•	•	•	•	
Classic	DG33FB	ATX	Viiv	DDR2 800	VGA	1	2	3	1(2)	4			6-ch	6+6	1+1				•	•	•	•	•	•	•	
ë	DG33BU	μATX	Viiv	DDR2 800	VGA	1	1	2	1(2)	4			6-ch	6+6	1+1				•	•	•	•	•	•	•	
	DG31PR	μATX		DDR2 800	VGA	1	1	2	1(2)	4			6-ch	4+2					•	•	•	-	•	•	•	
	D945GCLF	mini-ITX		DDR2 667	VGA			1	1(2)	2			2-ch	4+2												•
Essential	D945GCPE	μATX		DDR2 667	VGA			2	1(2)	2			4-ch	4+4								•	•	•	•	
Esse	DG31GL	μATX		DDR2 800	VGA			2	1(2)	2			4-ch	4+4					•	•	•	•	•	•	•	
	D945GCNL	μATX		DDR2 667	VGA	1	1	2	1(2)	4			6-ch	4+4								•	•	•	•	

Intel® Clear Video technology uses hardware video acceleration, de-interlacing technology, ProcAmp color controls, and other post-processor capabilities to deliver smooth, sharp, vibrant video images.

For more information, visit the Intel Web site at: http://www.intel.com/products/motherboard/







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Series	Extreme Series	Extreme Series	Extreme Series
Product Family	Intel® Desktop Board D5400XS	Intel® Desktop Board DX48BT2	Intel® Desktop Board DX38BT
Form Factor	EATX (13" x 12")	ATX	ATX
Product Code/UPC	B0XD5400XS / 00735858200615	BOXDX48BT2 / 00735858199766	BOXDX38BT / 00735858194525
10-pack Product Code/ UPC	N/A	BLKDX48BT2 / 00735858199773	BLKDX38BT / 00735858194532
Processor Support	Single or Dual Intel® Core®2 Extreme Quad-Core and Single or Dual Intel® Xeon® processors in the LGA771 package	Intel® Core®2 Extreme, Intel® Core®2 Quad, Intel® Core®2 Duo, Intel® Pentium® Dual-Core, and Intel® Celeron® Dual- Core processors in the LGA775 package	Intel® Core®2 Extreme, Intel® Core®2 Quad, Intel® Core®2 Duo, Intel® Pentium® Dual-Core, and Intel® Celeron® Dual- Core processors in the LGA775 package
Supported FSB	1600 MHz / 1333 MHz / 1066 MHz	1600 MHz / 1333 MHz / 1066 MHz	1333 MHz / 1066 MHz
Chipset	Intel® 5400 Express Chipset	Intel® X48 Express Chipset with ICH9R	Intel® X38 Express Chipset with ICH9R
Supports HT Technology ¹	No	No	No
Graphics	None	None	None
Graphics Connector	4 PCI Express* 1.0 x16 (electrical x16)	2 PCI Express* 2.0 x16 (electrical x16, 2nd Gen PCle) 1 PCI Express x16 (electrical x4)	2 PCI Express* 2.0 x16 (electrical x16, 2nd Gen PCle) 1 PCI Express x16 (electrical x4)
Memory Support	FBDIMM 800 MHz, Quad-channel (16 GB² max)	DDR3 1600 / 1333 SDRAM 4 slots, Dual-channel (8 GB² max)	DDR3 1333 SDRAM 4 slots, Dual-channel (8 GB² max)
Expansion Slots	2 PCI	1 PCI Express x16 (electrical x4), 2 PCI	1 PCI Express x16 (electrical x4), 2 PCI
Audio	Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical, 1 coax). Board supports Dolby* Home Theater	Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical, 1 coax). Board supports Dolby* Home Theater	Intel* High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical, 1 coax). Board supports Dolby* Home Theater
USB Ports	10 Hi-Speed USB 2.0, 6 back ports / 4 ports via 2 internal headers	12 Hi-Speed USB 2.0, 8 back ports / 4 ports via 2 internal headers	12 Hi-Speed USB 2.0, 8 back ports / 4 ports via 2 internal headers
1394	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)
Storage	6-port SATA (3.0 Gb/s) and 2-port eSATA	6-port SATA (3.0 Gb/s) and 2-port eSATA	6-port SATA (3.0 Gb/s) and 2-port eSATA
RAID	Intel® Matrix Storage Technology (NCQ, Hot Plug, RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	Intel® Matrix Storage Technology (NCQ, Hot Plug, RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	Intel® Matrix Storage Technology (NCQ, Hot Plug, RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)
Onboard LAN	Intel® PRO 10/100/1000 Network Connection	Intel® PRO 10/100/1000 Network Connection	Intel® PRO 10/100/1000 Network Connection
ТРМ	No	No	No
Lead Free	Yes	Yes	Yes
Software	Diskeeper* Home Edition DivX* for Windows* Dolby* Control Center Norton AntiVirus* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴ Kingsoft* Powerword*4	Intel® Desktop Control Center Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition DivX* for Windows* Dolby* Control Center Norton AntiVirus* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Powerword*4 Kingsoft* Powerword*4 DivX* for Windows* TypePad*	Ghost Recon Advanced Norton AntiVirus* Warfighter* 2 Skype* Intel® Desktop Control Center Intel® Integrator Assistant Intel® Integrator Toolkit Kingsoft* Antivirus4 Diskeeper* Home Edition Kingsoft* Powerword*4 DivX* for Windows* Dolby* Control Center
Intel® Advanced BIOS	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Precision Cooling Technology Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Precision Cooling Technology Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Precision Cooling Technology Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support
Windows Vista* and WHQL Support	Windows Vista* Premium	Windows Vista* Premium	Windows Vista* Premium
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty







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Series	Extreme Series	Extreme Series	Media Series		
Product Family	Intel® Desktop Board D975XBX2	Intel® Desktop Board DP45SG	Intel® Desktop Board DP35DP		
Form Factor	ATX	ATX	ATX		
Product Code/UPC	BOXD975XBX2KR / 00735858186162	BOXDP45SG / 00735858200356	BOXDP35DPM / 00735858192453		
10-pack Product Code/ UPC	BLKD975XBX2KR / 00735858186179	BLKDP45SG / 00735858200363	BLKDP35DPM / 00735858192460		
Processor Support	Intel® Core™2 Extreme, Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	Intel® Core®2 Extreme, Intel® Core®2 Quad, Intel® Core®2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	Intel* Core"2 Quad, Intel* Core"2 Duo, Intel* Pentium* Dual-Core, Intel* Celeron* Dual-Core, and Intel* Celeron* processors in the LGA775 package		
Supported FSB	1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz		
Chipset	Intel® 975X Express Chipset	Intel® P45 Express Chipset with ICH10R	Intel® P35 Express Chipset with ICH9R		
Supports HT Technology ¹	Yes	No	No		
Graphics	None	None	None		
Graphics Connector	1 PCI Express* x16 (electrical x16/x8) 1 PCI Express x16 (electrical x8) 1 PCI Express x16 (electrical x4)	2 PCI Express* 2.0 x16 (electrical x16, 2nd Gen PCIe)	PCI Express* x16		
Memory Support	DDR2 800 SDRAM 4 slots, Dual-channel (8 GB² max)	DDR3 1333 / 1066 / 800 SDRAM 4 slots, Dual-channel (8 GB² max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB² max)		
Expansion Slots	1 PCI Express x16 (electrical x4), 2 PCI	2 PCI Express x1, 3 PCI	3 PCI Express x1, 3 PCI		
Audio	Intel® High Definition Audio: 8-channel audio with jack sensing (back ports: 5 analog, 1 optical, 1 coax). Board supports Dolby* Master Studio	Intel* High Definition Audio: 8-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby* Home Theater	Intel® High Definition Audio: 8-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby* Home Theater		
USB Ports	8 Hi-Speed USB 2.0, 4 back ports / 4 ports via 2 internal headers	12 Hi-Speed USB 2.0, 6 back ports / 6 ports via 2 internal headers	12 Hi-Speed USB 2.0, 6 back ports / 6 ports via internal headers		
1394	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)		
Storage	4-port SATA (3.0 Gb/s), Discrete SATA RAID Controller with 4 additional SATA ports (3.0 Gb/s)	5-port SATA and 1-port eSATA (3.0 Gb/s)	6-port SATA and 1-port eSATA (3.0 Gb/s)		
RAID	Intel® Matrix Storage Technology (NCQ, Hot Plug, RAID 0, 1, 5, 10, and Matrix RAID)	Intel® Matrix Storage Technology (NCQ, Hot Plug, RAID 0, 1, 5, 10, and Matrix RAID)	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10 with Intel® Rapid Recover Technology)		
Onboard LAN	Intel® PRO 10/100/1000 Network Connection	Intel® PRO 10/100/1000 Network Connection	Intel® PRO 10/100/1000 Network Connection		
ТРМ	No	No	No		
Lead Free	Yes	Yes	Yes		
Software	Intel® Audio Studio Pro Intel® Desktop Control Center Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* 9 Home Edition FarStone RestoreIT* InterVideo* MediaOne* Gallery InterVideo* WinDVD* Player Norton AntiVirus* Norton Intervis * Norton In	Intel* Desktop Control Center Intel* Integrator Assistant Acronis* True Image 11 Home CyberLink* Live Premium Diskeeper* Home Edition DivX* Pro for Windows* Dolby* Control Center Laplink* PCmover* Express Norton 360* Skype* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴ Kingsoft* Powerword*⁴ Fowerword*4 Norton 360*	Intel® Integrator Assistant Kingsoft* Antivirus⁴ Intel® Integrator Toolkit Kingsoft* Powerword*⁴ Diskeeper* Home Edition DivX* for Windows* Dolby* Control Center Norton AntiVirus* Skype* TypePad* Kaspersky* Anti-Virus³		
Intel® Advanced BIOS	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Precision Cooling Technology Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support Multiple Language Support	Intel® Express BIOS Update Digital Signature Technology Fault Tolerant Flashing Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology Intel® Rapid BIOS Boot	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology Intel® Rapid BIOS Boot		
Windows Vista* and WHQL Support	Windows Vista* Premium	Windows Vista* Premium	Windows Vista* Premium		
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty		







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Series	Media Series	1	Executive Series - Supports Ir	ntel® vPro™ Processor Technology	Executive Series - Supports Ir	ntel® vPro™ Processor Technology	
Product Family	Intel® Desktop Board DG33TL		Intel® Desktop Board DQ35J0		Intel® Desktop Board DQ35M	P	
Form Factor	MicroATX		MicroATX		MicroATX		
Product Code/UPC	BOXDG33TLM / 0073585819	3634	BOXDQ35J0E / 0073585888	8804	BOXDQ35MPE / 00735858888805		
10-pack Product Code/ UPC	BLKDG33TLM / 007358581936	27	BLKDQ35J0E / 0073585888880)2	BLKDQ35MPE / 007358588888	303	
Processor Support	Intel® Core™2 Quad, Intel® Core Dual-Core, Intel® Celeron® Dua processors in the LGA775 page	al-Core, and Intel® Celeron®	Intel® Core™2 Quad, Intel® Cor Dual-Core, Intel® Celeron® Dua processors in the LGA775 pa	al-Core, and Intel® Celeron®	Intel® Core™2 Quad, Intel® Cor Dual-Core, Intel® Celeron® Dua processors in the LGA775 pa	al-Core, and Intel® Celeron®	
Supported FSB	1333 MHz / 1066 MHz / 800 MH	łz	1333 MHz / 1066 MHz / 800 Mi	Hz	1333 MHz / 1066 MHz / 800 MI	Hz	
Chipset	Intel® G33 Express Chipset with I	CH9R	Intel® Q35 Express Chipset with I Intel® Active Management Techno		Intel® Q35 Express Chipset with Intel® Active Management Technol		
Supports HT Technology ¹	No		No		No		
Graphics	Integrated Intel® Graphics Media / Video Technology	Accelerator 3100 with Intel® Clear	Intel® Graphics Media Accelerator Display capability (VGA + DVI-D ou		Intel® Graphics Media Accelerator	r 3100	
Graphics Connector	PCI Express* x16		PCI Express* x16		PCI Express* x16		
Memory Support	DDR2 800 / 667 SDRAM 4 slots,	Dual-channel (8 GB² max)	DDR2 800 / 667 SDRAM 4 slots,	, Dual-channel (8 GB² max)	DDR2 800 / 667 SDRAM 4 slots	, Dual-channel (8 GB² max)	
Expansion Slots	2 PCI Express x1, 1 PCI		2 PCI Express x1, 1 PCI		2 PCI Express x1, 1 PCI		
Audio	Intel® High Definition Audio: 8-chaports: 5 analog, 1 optical). Board sup	annel audio with jack sensing <i>(back</i> oports Dolby* Home Theater	Intel® High Definition Audio: 4-ch	nannel codec	Intel® High Definition Audio: 4-ch	nannel codec	
USB Ports	12 Hi-Speed USB 2.0, 6 back por	ts / 6 ports via internal headers	12 Hi-Speed USB 2.0, 6 external p	ports / 6 ports via 3 internal headers	12 Hi-Speed USB 2.0, 6 external	ports / 6 ports via 3 internal headers	
1394	Up to 2 IEEE 1394a ports (1 back	port, 1 via internal header)	Up to 2 IEEE 1394a ports (1 back	k port, 1 via internal header)	N/A		
Storage	6-port SATA and 1-port eSATA (3	.0 Gb/s)	6-port SATA (3.0 Gb/s) with port r ATA 100/66 port	multiplier and 1-port eSATA Parallel	6-port SATA (3.0 Gb/s) with port I ATA 100/66 port	multiplier and 1-port eSATA Parallel	
RAID	Intel® Matrix Storage Technology Recover Technology)	(RAID 0, 1, 5, 10 with Intel® Rapid	Intel® Matrix Storage Technology Recover Technology	y (RAID 0, 1, 5, 10) with Intel® Rapid	Intel® Matrix Storage Technology Recover Technology	<i>J (RAID 0, 1, 5, 10)</i> with Intel® Rapid	
Onboard LAN	Intel® PRO 10/100/1000 Networ	k Connection	Intel® PRO 10/100/1000 Netwo Intel® Active Management Techn Defense Feature		Intel® PRO 10/100/1000 Netwo Intel® Active Management Techn Defense Feature		
ТРМ	No		Trusted Platform Module 1.2 Intel® Trusted Execution Technol	logy Ready	Trusted Platform Module 1.2 Intel® Trusted Execution Technol	logy Ready	
Lead Free	Yes		Yes		Yes		
Software	Intel® Integrator Toolkit	Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴ Kingsoft* Powerword*⁴	Intel® Audio Studio Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* 9 Home Edition FarStone® RestoreIT* Norton* 360 Norton AntiVirus*	Premium VoIP Service Offers SAAZ* Starter Edition 5.0 SyAM* Software Desktop Monitor Central Wave* EMBASSY* Trust Suite Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴	Intel® Audio Studio Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* 9 Home Edition FarStone® RestoreIT* Norton* 360 Norton AntiVirus*	Premium VoIP Service Offers SAAZ* Starter Edition 5.0 SyAM* Software Desktop Monitor Central Wave* EMBASSY* Trust Suite Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴	
Intel® Advanced BIOS	Intel® Platform Innovation Framework for the Extensible	Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology	Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology	Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	
Windows Vista* and WHQL Support	Windows Vista* Premium		Windows Vista* Premium		Windows Vista* Premium		
Warranty	3 year limited warranty		3 year limited warranty		3 year limited warranty		







Series	Executive Series - Supports Intel® vPro™ Processor Technology	Classic Series	Classic Series
Product Family	Intel® Desktop Board DQ965GF	Intel® Desktop Board DG35EC	Intel® Desktop Board DG33FB
Form Factor	MicroATX	MicroATX	ATX
Product Code/UPC	BOXDQ965GFEKR / 00735858180993	BOXDG35EC / 00735858200448	BOXDG33FBC / 00735858192064
10-pack Product Code/ UPC	BLKDQ965GFEKR / 00735858181006	BLKDG35EC / 00735858200455	BLKDG33FBC / 00735858192071
Processor Support	Intel® Core®2 Quad®, Intel® Core®2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	Intel® Core®2 Quad, Intel® Core®2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	Intel* Core**2 Quad (95W TDP), Intel* Core**2 Duo, Intel* Pentium* Dual-Core, Intel* Celeron* Dual-Core, and Intel* Celeron* processors in the LGA775 package
Supported FSB	1066 MHz / 800 MHz / 533 MHz	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz
Chipset	Intel® Q965 Express Chipset	Intel® G35 Express Chipset	Intel® G33 Express Chipset (refer to the Desktop Platforms Matrix)
Supports HT Technology ¹	Yes	No	Yes
Graphics	Intel® Graphics Media Accelerator 3000	Intel® Graphics Media Accelerator X3500 with Dual-Independent Display capability (VGA + DVI-D outputs)	Intel® Graphics Media Accelerator 3100 with Intel® Clear Video Technology
Graphics Connector	PCI Express* x16	PCI Express* x16	PCI Express* x16
Memory Support	DDR2 800 / 667 / 5337 SDRAM, Dual-channel (8 GB ² max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB² max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ² max)
Expansion Slots	1 PCI Express x1, 2 PCI	2 PCI Express x1, 1 PCI	3 PCI Express x1, 3 PCI
Audio	Intel® High Definition Audio: 6-channel audio with jack sensing	Intel® High Definition Audio: 6-channel audio with jack sensing	Intel® High Definition Audio: 6-channel audio with jack sensing
USB Ports	10 Hi-Speed USB 2.0, 6 back ports / 4 ports via 2 internal headers	10 Hi-Speed USB 2.0, 6 back ports / 4 ports via 2 internal headers	12 Hi-Speed USB 2.0, 6 back ports / 6 ports via 3 internal headers
1394	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)
Storage	6-port SATA (3.0 Gb/s, NCQ, Hot Plug) and ATA 100/66 up to two devices	4-port SATA (3.0 Gb/s, NCQ, Hot Plug) and ATA 100/66 up to two devices	4-port SATA (3.0 Gb/s) and ATA 100/66 up to two devices
RAID	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, and Matrix RAID)	No	No
Onboard LAN	Intel® PRO 10/100/1000 Network Connection Intel® Active Management Technology (Intel® AMT) ⁵ with System Defense Feature	Intel® PRO 10/100/1000 Network Connection	Intel® PRO 10/100/1000 Network Connection
ТРМ	Trusted Platform Module 1.2	No	No
Lead Free	Yes	Yes	Yes
Software	Intel* Audio Studio Intel* Desktop Utilities Intel* Integrator Assistant Intel* Integrator Toolkit Diskeeper* 9 Home Edition FarStone* RestoreIT* Norton AntiVirus* Premium VolP Service Offers SAAZ* Starter Edition 5.0 SyAM* Software Desktop Monitor Central Wave* EMBASSY* Trust Suite Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴ Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* WildTangent* Kaspersky* Anti-Virus³ Kingsoft* Antivirus4	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper® Home Edition Norton Internet Security® Skype® TypePad® Kaspersky® Anti-Virus® Kingsoft® Antivirus®
Intel® Advanced BIOS	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (FFI) Intel® Quiet System Technology Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support
Windows Vista* and WHQL Support	Windows Vista* Premium	Windows Vista* Premium	Windows Vista* Premium
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty







Series	Classic Series	Classic Series	Essential Series		
Product Family	Intel® Desktop Board DG33BU	Intel® Desktop Boards DG31PR	Intel® Desktop Board D945GCLF		
Form Factor	MicroATX	MicroATX	Mini-ITX, MicroATX-compatible		
Product Code/UPC	BOXDG33BUC / 00735858192095	BOXDG31PRC / 00735858891347	BOXD945GCLF / 00735858201247		
10-pack Product Code/ UPC	BLKDG33BUC / 00735858192101	BLKDG31PR / 00735858891348	BLKD945GCLF / 00735858201254		
Processor Support	Intel® Core™2 Quad (95W TDP), Intel® Core™2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	Intel® Core®2 Quad (95W TDP), Intel® Core®2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	intel® Atom™ Processor 230 integrated in BGA package		
Supported FSB	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	533 MHz		
Chipset	Intel® G33 Express Chipset (refer to the Desktop Platforms Matrix)	Intel® G31 Express Chipset with ICH7	Intel® 945GC Express Chipset with ICH7		
Supports HT Technology ¹	Yes	Yes	No		
Graphics	Intel® Graphics Media Accelerator 3100 with Intel® Clear Video Technology	Intel® Graphics Media Accelerator 3100	ntel® Graphics Media Accelerator 950		
Graphics Connector	PCI Express* x16	PCI Express* x16	N/A		
Memory Support	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ² max)	DDR2 800 / 667 SDRAM 2 slots, Dual-channel (4 GB² max)	DDR2 667 / 533 SDRAM 1 slot, Single-channel (2 GB max)		
Expansion Slots	1 PCI Express x1, 2 PCI	1 PCI Express x1, 2 PCI	1 PCI		
Audio	Intel® High Definition Audio: 6-channel audio with jack sensing	Intel® High Definition Audio: 6-channel audio with jack sensing Front panel mic/headphone header	2-channel audio		
USB Ports	12 Hi-Speed USB 2.0, 6 back ports / 6 ports via 3 internal headers	8 Hi-Speed USB 2.0, 4 external ports / 4 ports via 2 internal headers	6 Hi-Speed USB 2.0, 4 back ports / 2 ports via 1 internal header		
1394	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	N/A	N/A		
Storage	4-port SATA (3.0 Gb/s) and ATA 100/66 up to two devices	4-port SATA (3.0 Gb/s) and 1-port Parallel ATA up to two devices	2-port SATA and ATA 100 up to two devices		
RAID	No	No	No		
Onboard LAN	Intel® PRO 10/100/1000 Network Connection	Integrated 10/100/1000 Network Connection	Realtek* 10/100 Network Connection		
TPM	No	No	No		
Lead Free	Yes	Yes	Yes		
Software	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus4	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴		
Intel® Advanced BIOS	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (FFI) Intel® Quiet System Technology Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Rapid BIOS Boot		
Windows Vista* and WHQL Support	Windows Vista* Premium	Windows Vista* Premium	Windows Vista* Basic		
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty		

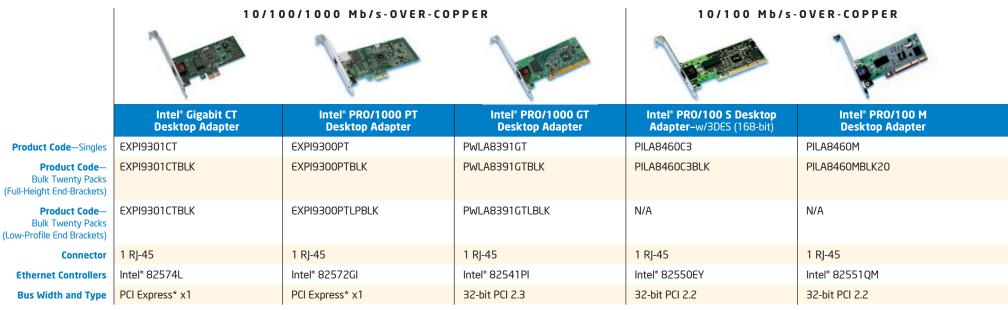






Series	Essential Series	Essential Series	Essential Series - Supports Intel® Platform Administrator Technology
Product Family	Intel® Desktop Board D945GCPE	Intel® Desktop Board DG31GL	Intel® Desktop Board D945GCNL
Form Factor	MicroATX	MicroATX	MicroATX
Product Code/UPC	BOXD945GCPE / 00735858891246	BOXDG31GL / 00735858200929	BOXD945GCNL / 00735858891241
10-pack Product Code/ UPC	BLKD945GCPE / 00735858891247	BLKDG31GL / 00735858200936	BLKD945GCNL / 00735858891242
Processor Support	Intel® Core®2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	Intel® Core®2 Quad, Intel® Core®2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package	Intel® Core®2 Duo, Intel® Pentium® Dual-Core, Intel® Celeron® Dual-Core, and Intel® Celeron® processors in the LGA775 package
Supported FSB	1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	1066 MHz / 800 MHz
Chipset	Intel® 945GC Express Chipset with ICH7	Intel® G31 Express Chipset	Intel® 945GC Express Chipset with ICH7
Supports HT Technology ¹	Yes	No	Yes
Graphics	Intel® Graphics Media Accelerator 950	Intel® Graphics Media Accelerator 3100	Intel® Graphics Media Accelerator 950
Graphics Connector	N/A	N/A	PCI Express* x16
Memory Support	DDR2 667 / 533 SDRAM 2 slots, Dual-channel (2 GB max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (4 GB² max)	DDR2 667 / 533 SDRAM 2 slots, Dual-channel (2 GB max)
Expansion Slots	2 PCI	2 PCI	1 PCI Express x1, 2 PCI
Audio	High Definition Audio: 4-channel audio, Front panel mic/headphone header	Intel® High Definition Audio: 4-channel audio	Realtek* ALC 888 High Definition Audio: 6-channel (5.1), Front panel mic/headphone header
USB Ports	8 Hi-Speed USB 2.0, 4 external ports / 4 ports via 2 internal headers	8 Hi-Speed USB 2.0, 4 back ports / 4 ports via 2 internal headers	8 Hi-Speed USB 2.0, 4 external ports / 4 ports via 2 internal headers
1394	N/A	N/A	N/A
Storage	2-port SATA (3.0 Gb/s) and 1-port Parallel ATA up to two devices	4-port SATA (3.0 Gb/s, NCQ, Hot Plug) and ATA 100/66 up to two devices	4-port SATA (3.0 Gb/s) and 1-port Parallel ATA up to two devices
RAID	No	No	No
Onboard LAN	Integrated 10/100 Network Connection	Intel® PRO 10/100 Network Connection	Integrated 10/100/1000 Network Connection
TPM	No	No	No
Lead Free	Yes	Yes	Yes
Software	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus⁴	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus³ Kingsoft* Antivirus4
Intel® Advanced BIOS	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Rapid BIOS Boot Digital Signature Technology Fault Tolerant Flashing Multiple Language Support
Windows Vista* and WHQL Support	Windows Vista* Premium	Windows Vista* Basic	Windows Vista* Premium
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty

INTEL® DESKTOP ADAPTERS



For more information, visit the Intel Web site at: www.intel.com/network/connectivity/index.htm

- ¹ Hyper-Threading requires a computer system with an Intel® Pentium® 4 processor supporting this technology, a chipset and BIOS that utilize this technology, and an operating system that includes optimizations for this technology. Performance will vary depending on the specific hardware and software you use. See www.intel.com/info/hyperthreading for information.
- ² System resources and hardware (such as PCI and PCI Express*) require physical memory address locations that can reduce available addressable system memory. This could result in a reduction of as much as 1 GB or more of physical addressable memory being available to the operating system and applications, depending on the system configuration and operating system.
- 3 Russian only
- 4 Chinese only
- 5 Intel® AMT requires the computer to have an Intel® AMT-enabled chipset, network hardware and software, connection with a power source, and a network connection.
- ⁶ May require latest board revision, visit www.intel.com/products/desktop/motherboard/index.htm for more information.
- ⁷ In combination with Intel® processors in the LGA775 package with 800 MHz and 533 MHz system bus.

Intel® desktop boards may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request. All products and dates specified are preliminary based on current expectations and are subject to change without notice. Availability in different channels may vary.

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Intel® Graphics Product Matrix— Desktop Products



Intel® Graphics-also great for business!

- Full support for Windows Vista* Premium
- Cost efficient and lower power (no need for a separate graphics card)
- Enables the use of dual-independent displays

	INTEL® GRAPHICS CORE NAME	ASSOCIATED INTEL® EXPRESS CHIPSET	BENEFITS	VIDEO MEMORY	HD VIDEO PLAYBACK	VIDEO SHARPNESS/ DETAIL/COLOR	3D SUPPORT	DISPLAY INTERFACE SUPPORT	WINDOWS VISTA* SUPPORT
Best	Intel® Graphics Media Accelerator X4500HD	G45	Superior video quality and performance, supporting full Blu-ray* playback. 3D enhancements enable improved realism with support for Microsoft DirectX* 10.	Up to 829 MB ¹	 1080p, 1080i, and 720p Native support for full Blu-ray* playback 	Advanced De-Interlacing (HD and SD) Sharpness / Detail Filter Cadence Detection	DirectX* 10 Shader Model 4.0 OpenGL 2.0	DisplayPort* Integrated HDMI, DVI, and S-Video Intel* TV Tuner Wizard Dual-Independent Display	Ultimate Home Premium Enterprise Basic
Better	Intel® Graphics Media Accelerator X4500	G43	Exceptional HD playback performance. Improved 3D gaming with support for Microsoft DirectX* 10.	Up to 829 MB ¹	• 1080p, 1080i, and 720p • Support for Blu-ray* playback	Adaptive De-Interlacing	DirectX* 10Shader Model 4.0OpenGL 2.0	DisplayPort* Integrated HDMI, DVI, and S-Video Intel* TV Tuner Wizard Dual-Independent Display	Ultimate Home Premium Enterprise Basic
Good	Intel® Graphics Media Accelerator X3500	G35	Excellent video quality and performance, supporting the latest in HD playback. Improved 3D gaming with support for Microsoft DirectX* 10.	Up to 384 MB	1080p, 1080i, and 720p Support for Blu-ray* playback	Advanced De-Interlacing Sharpness / Detail Filter	DirectX* 10Shader Model 4.0OpenGL 2.0	HDMI, DVI, and S-Video Intel* TV Tuner Wizard Dual-Independent Display	Ultimate Home Premium Enterprise Basic
Entry	Intel® Graphics Media Accelerator 3100	G31	Good HD playback performance. Improved 3D gaming with support for Shader Model 2.0.	Up to 256 MB	• 1080p, 1080i, and 720p	Adaptive De-Interlacing	DirectX* 9.0cShader Model 2.0OpenGL 1.4	DVI and S-Video Dual-Independent Display	Ultimate Home Premium Enterprise Basic

Intel® Graphics are the #1 choice of personal computer buyers worldwide², delivering smooth, hiqh-quality HD video playback, advanced 3D capabilities, and full support for the Windows Vista* operating system. Intel Graphics deliver a unique solution for a broad array of users without the costs typically associated with add-on graphics cards.

For more information, visit the Intel Web site at: www.intel.com/go/graphics

Intel® Graphics Product Matrix— Mobile Products



Intel® Graphics-also great for business!

- Full support for Windows Vista* Premium
- Cost efficient and lower power, enabling longer battery life
- Enables the use of dual-independent displays

		INTEL® GRAPHICS CORE NAME	ASSOCIATED INTEL® EXPRESS CHIPSET(S)	BENEFITS	VIDEO MEMORY	HD VIDEO PLAYBACK	VIDEO SHARPNESS/ DETAIL/COLOR	3D SUPPORT	DISPLAY INTERFACE SUPPORT	INTEL® CENTRINO® DUO TECHNOLOGY
В	est	Mobile Intel® Graphics Media Accelerator 4000M Series	GM45 GM47	Superior video quality and performance, supporting full Blu-ray* playback. 3D enhancements enable improved realism with support for Microsoft DirectX* 10.	Up to 829 MB ¹	1080p, 1080i, and 720p Native support for full Blu-ray* playback	Advanced De-Interlacing Sharpness / Detail Filter Cadence Detection	DirectX* 10 Shader Model 4.0 OpenGL 2.0	DisplayPort* Integrated HDMI, DVI, and S-Video Intel® TV Tuner Wizard Dual-Independent Display	Yes
Fo	mall orm ctor	Mobile Intel® Graphics Media Accelerator 4000M Series	GS45	Energy-efficient graphics performance for ultra-mobile PCs	Up to 829 MB ¹	1080p, 1080i, and 720p Native support for full Blu-ray* playback	Advanced De-Interlacing Sharpness / Detail Filter Cadence Detection	DirectX* 10 Shader Model 4.0 OpenGL 2.0	DisplayPort* Integrated HDMI, DVI, and S-Video Intel® TV Tuner Wizard Dual-Independent Display	Yes
Er	ntry	Mobile Intel® Graphics Media Accelerator 4000M Series	GL40	Great entry platform to meet all basic computing needs.	Up to 829 MB ¹	1080p, 1080i, and 720p Native support for full Blu-ray* playback	Advanced De-Interlacing Sharpness / Detail Filter	DirectX* 10 Shader Model 4.0 OpenGL 2.0	HDMI, DVI, S-Video Dual-Independent Display	No (compatible with Intel* Celeron* and Intel* Pentium* processors only)

All of the mobile Intel® Graphics products above support Microsoft Windows Vista* Ultimate, Home Premium, Enterprise, and Basic versions.

Intel® Graphics are the #1 choice of personal computer buyers worldwide², delivering smooth, high-quality HD video playback, advanced 3D capabilities, and full support for the Windows Vista* operating system. Intel Graphics deliver a unique solution for a broad array of users without the costs typically associated with add-on graphics cards.

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¹ Supported on Windows Vista* with 2 GB configuration

² Mercury Research, PC Graphics 2008 (includes integrated and discrete graphics)

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INTEL® MOBILE PROCESSORS AND INTEL® PRO/WIRELESS NETWORK CONNECTIONS







PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE/TYPE
Intel® Core™2 Extreme Processor X9100	AW80576GH0836M (Tray Only)	3.06 GHz	1066 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Extreme Processor X9000	FF80576ZG0726M (Tray Only)	2.80 GHz	800 MHz	6 MB L2	Socket-P (45nm)
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE/TYPE
Intel® Core™2 Duo Processor T9600	BX80576T9600	2.80 GHz	1066 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T9400	BX80576T9400	2.53 GHz	1066 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor P9500	BX80576P9500	2.53 GHz	1066 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor P8600	BX80577P8600	2.40 GHz	1066 MHz	3 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor P8400	BX80577P8400	2.26 GHz	1066 MHz	3 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T9500	FF80576GG0646M (Tray Only)	2.60 GHz	800 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T9300	BX80576T9300	2.50 GHz	800 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T8300	BX80577T8300	2.40 GHz	800 MHz	3 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T8100	BX80577T8100	2.10 GHz	800 MHz	3 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T7800	LF80537GG0644ML (Tray Only)	2.60 GHz	800 MHz	4 MB L2	Socket-P
Intel Core 2 Duo Processor T7700	BX80537T7700	2.40 GHz	800 MHz	4 MB L2	Socket-P
Intel Core 2 Duo Processor T7500	BX80537T7500	2.20 GHz	800 MHz	4 MB L2	Socket-P
Intel Core 2 Duo Processor T7250	BX80537T7250	2 GHz	800 MHz	2 MB L2	Socket-P
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE
Intel® Celeron® Processor 570	LF80537NE0511M (Tray Only)	2.26 GHz	533 MHz	1 MB L2	Socket-P
Intel Celeron Processor 560	BX80537560	2.13 GHz	533 MHz	1 MB L2	Socket-P
Intel Celeron Processor 550	BX80537550	2 GHz	533 MHz	1 MB L2	Socket-P

INTEL® PRO/WIRELESS NETWORK CONNECTIONS

PRODUCT NAME	PRODUCT CODE	WLAN STANDARD	FREQUENCY BAND	FORM FACTOR
Intel® WiFi Link 5300	533AN_MMWW	802.11a/b/g/n	2.401–2.492, 5.160–5.350, 5.470–5.725, 5.825–5.850 GHz	Mini Card
Intel WiFi Link 5100	512AN_MMWW	802.11a/b/g/n	2.401–2.492, 5.160–5.350, 5.470–5.725, 5.825–5.850 GHz	Mini Card
Intel® Next-Gen Wireless-N	4965AGNMM1WB	802.11a/b/g/n	2.412-2.462, 5.18-5.32, 5.745-5.825 GHz	Mini Card
Intel Next-Gen Wireless-N	4965AGNMM2WB	802.11a/b/g/n	2.412-2.472, 5.18-5.24, 5.26-5.32, 5.50-5.70 GHz	Mini Card
Intel Next-Gen Wireless-N	4965AGNMRWWB	802.11a/b/g/n	2.412-2.472, 5.745-5.805 GHz	Mini Card
Intel Next-Gen Wireless-N	4965AGNMJPWB	802.11a/b/g/n	2.412-2.472, 5.17-5.23, 5.18-5.24, 5.26-5.32 GHz	Mini Card

For more information, visit the Intel Web site at: www.intel.com/network/connectivity/products/wireless/index.htm

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number for more details.

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INTEL® SERVER/WORKSTATION PROCESSORS



MULTI-CORE INTEL® XEON® PROCESSOR 3000 SEQUENCE

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	# OF CPUS SUPPORTED	POWER	UPC CODE
Quad-Core Intel® Xeon® Processor X3360	BX80569X3360	2.83 GHz	1333 MHz	12 MB	LGA775	1	95 W	7 35858 19986 5
Quad-Core Intel Xeon Processor X3350	BX80569X3350	2.66 GHz	1333 MHz	12 MB	LGA775	1	95 W	7 35858 19987 2
Quad-Core Intel Xeon Processor X3320	BX80580X3320	2.50 GHz	1333 MHz	6 MB	LGA775	1	95 W	7 35858 19982 7
Quad-Core Intel Xeon Processor X3230	BX80562X3230	2.66 GHz	1066 MHz	8 MB	LGA775	1	95 W	7 35858 19537 9
Quad-Core Intel Xeon Processor X3220	BX80562X3220	2.40 GHz	1066 MHz	8 MB	LGA775	1	95 W	7 35858 19122 7
Quad-Core Intel Xeon Processor X3210	BX80562X3210	2.13 GHz	1066 MHz	8 MB	LGA775	1	95 W	7 35858 19123 4
Dual-Core Intel® Xeon® Processor E3110	BX80570E3110	3 GHz	1333 MHz	6 MB	LGA775	1	65 W	7 35858 19983 4

MULTI-CORE INTEL® XEON® PROCESSOR 5000 SEQUENCE

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	# OF CPUS SUPPORTED	POWER	UPC CODE
Quad-Core Intel® Xeon® Processor X5482	EU80574KL088N (tray only)	3.20 GHz	1600 MHz	12 MB	LGA771	2	150 W	
Quad-Core Intel Xeon Processor X5472	EU80574KL080NT (tray only)	3 GHz	1600 MHz	12 MB	LGA771	2	120 W	
Quad-Core Intel Xeon Processor E5472	EU80574KL080N (tray only)	3 GHz	1600 MHz	12 MB	LGA771	2	80 W	
Quad-Core Intel Xeon Processor E5462	EU80574KL072N (tray only)	2.80 GHz	1600 MHz	12 MB	LGA771	2	80 W	

Multi-Core Intel® Xeon® processors are the preferred choice for demanding server applications. Multi-Core Intel Xeon 5000 and 3000 sequence processors help to significantly improve compute power and response times for Internet applications, mail servers, small databases, and general purpose and technical computing applications, while the Multi-Core Intel Xeon processor 7000 sequence provides world-class performance for demanding enterprise-level applications.

For more information, visit the Intel Web site at: www.intel.com/go/serverprocessors

MULTI-CORE INTEL® XEON® PROCESSOR 5000 SEQUENCE continued

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	# OF CPUS SUPPORTED	POWER	UPC CODE
Quad-Core Intel® Xeon® Processor X5460	BX80574X5460P (2U passive heatsink)	3.16 GHz	1333 MHz	12 MB	LGA771	2	120 W	7 35858 19880 6
	BX80574X5460A (active or 1U heatsink)	3.16 GHz	1333 MHz	12 MB	LGA771	2	120 W	7 35858 19879 0
Quad-Core Intel Xeon Processor X5450	BX80574X5450P (2U passive heatsink)	3 GHz	1333 MHz	12 MB	LGA771	2	120 W	7 35858 19882 0
	BX80574X5450A (active or 1U heatsink)	3 GHz	1333 MHz	12 MB	LGA771	2	120 W	7 35858 19881 3
Quad-Core Intel Xeon Processor E5450	BX80574E5450P (2U passive heatsink)	3 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19884 4
	BX80574E5450A (active or 1U heatsink)	3 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19883 7
Quad-Core Intel Xeon Processor E5440	BX80574E5440P (2U passive heatsink)	2.83 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19886 8
	BX80574E5440A (active or 1U heatsink)	2.83 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19885 1
Quad-Core Intel Xeon Processor E5430	BX80574E5430P (2U passive heatsink)	2.66 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19888 2
	BX80574E5430A (active or 1U heatsink)	2.66 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19887 5
Quad-Core Intel Xeon Processor E5420	BX80574E5420P (2U passive heatsink)	2.50 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19890 5
	BX80574E5420A (active or 1U heatsink)	2.50 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19889 9
Quad-Core Intel Xeon Processor L5420	BX80574L5420P (2U passive heatsink)	2.50 GHz	1333 MHz	12 MB	LGA771	2	50 W	7 35858 19896 7
	BX80574L5420A (active or 1U heatsink)	2.50 GHz	1333 MHz	12 MB	LGA771	2	50 W	7 35858 19895 0
Quad-Core Intel Xeon Processor E5410	BX80574E5410P (2U passive heatsink)	2.33 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19892 9
	BX80574E5410A (active or 1U heatsink)	2.33 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19891 2
Quad-Core Intel Xeon Processor L5410	BX80574L5410P (2U passive heatsink)	2.33 GHz	1333 MHz	12 MB	LGA771	2	50 W	7 35858 19898 1
	BX80574L5410A (active or 1U heatsink)	2.33 GHz	1333 MHz	12 MB	LGA771	2	50 W	7 35858 19897 4

MULTI-CORE INTEL® XEON® PROCESSOR 5000 SEQUENCE continued

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	# OF CPUS SUPPORTED	POWER	UPC CODE
Quad-Core Intel® Xeon® Processor E5405	BX80574E5405P (2U passive heatsink)	2 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19894 3
	BX80574E5405A (active or 1U heatsink)	2 GHz	1333 MHz	12 MB	LGA771	2	80 W	7 35858 19893 6
Quad-Core Intel Xeon Processor X5365	BX80563X5365P (2U passive heatsink)	3 GHz	1333 MHz	8 MB	LGA771	2	120 W	7 35858 19544 7
	BX80563X5365A (active or 1U heatsink)	3 GHz	1333 MHz	8 MB	LGA771	2	120 W	7 35858 19543 0
Quad-Core Intel Xeon Processor X5355	BX80563X5355P (2U passive heatsink)	2.66 GHz	1333 MHz	8 MB	LGA771	2	120 W	7 35858 19140 1
	BX80563X5355A (active or 1U heatsink)	2.66 GHz	1333 MHz	8 MB	LGA771	2	120 W	7 35858 19139 5
Quad-Core Intel Xeon Processor E5345	BX80563E5345P (2U passive heatsink)	2.33 GHz	1333 MHz	8 MB	LGA771	2	80 W	7 35858 19142 5
	BX80563E5345A (active or 1U heatsink)	2.33 GHz	1333 MHz	8 MB	LGA771	2	80 W	7 35858 19141 8
Quad-Core Intel Xeon Processor E5335	BX80563E5335P (2U passive heatsink)	2 GHz	1333 MHz	8 MB	LGA771	2	80 W	7 35858 19144 9
	BX80563E5335A (active or 1U heatsink)	2 GHz	1333 MHz	8 MB	LGA771	2	80 W	7 35858 19143 2
Quad-Core Intel Xeon Processor L5335	BX80563L5335P (2U passive heatsink)	2 GHz	1333 MHz	8 MB	LGA771	2	50 W	7 35858 19545 4
	BX80563L5335A (active or 1U heatsink)	2 GHz	1333 MHz	8 MB	LGA771	2	50 W	7 35858 19546 1
Quad-Core Intel Xeon Processor E5320	BX80563E5320P (2U passive heatsink)	1.86 GHz	1066 MHz	8 MB	LGA771	2	80 W	7 35858 19040 4
	BX80563E5320A (active or 1U heatsink)	1.86 GHz	1066 MHz	8 MB	LGA771	2	80 W	7 35858 19039 8
Quad-Core Intel Xeon Processor L5320	BX80563L5320P (2U passive heatsink)	1.86 GHz	1066 MHz	8 MB	LGA771	2	50 W	7 35858 19255 2
	BX80563L5320A (active or 1U heatsink)	1.86 GHz	1066 MHz	8 MB	LGA771	2	50 W	7 35858 19254 5
Quad-Core Intel Xeon Processor E5310	BX80563E5310P (2U passive heatsink)	1.60 GHz	1066 MHz	8 MB	LGA771	2	80 W	7 35858 19081 7
	BX80563E5310A (active or 1U heatsink)	1.60 GHz	1066 MHz	8 MB	LGA771	2	80 W	7 35858 19080 0

MULTI-CORE INTEL® XEON® PROCESSOR 5000 SEQUENCE continued

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	# OF CPUS SUPPORTED	POWER	UPC CODE
Quad-Core Intel® Xeon® Processor X5272	EU80573KL0966M (tray only)	3.40 GHz	1600 MHz	6 MB	LGA771	2	80 W	
Dual-Core Intel® Xeon® Processor X5260	EU80573KJ0936M (tray only)	3.33 GHz	1333 MHz	6 MB	LGA771	2	80 W	
Dual-Core Intel Xeon Processor L5240	EU80573JJ0806M (tray only)	3 GHz	1333 MHz	6 MB	LGA771	2	40 W	
Dual-Core Intel Xeon Processor E5205	BX80573E5205P (2U passive heatsink)	1.86 GHz	1066 MHz	6 MB	LGA771	2	65 W	7 35858 19911 7
	BX80573E5205A (active or 1U heatsink)	1.86 GHz	1066 MHz	6 MB	LGA771	2	65 W	7 35858 19910 0
Dual-Core Intel Xeon Processor 5160	BX805565160P (2U passive heatsink)	3 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18426 7
	BX805565160A (active or 1U heatsink)	3 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18425 0
Dual-Core Intel Xeon Processor 5150	BX805565150P (2U passive heatsink)	2.66 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18428 1
	BX805565150A (active or 1U heatsink)	2.66 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18427 4
Dual-Core Intel Xeon Processor LV 5148	BX805565148P (2U passive heatsink)	2.33 GHz	1333 MHz	4 MB	LGA771	2	40 W	7 35858 18438 0
	BX805565148A (active or 1U heatsink)	2.33 GHz	1333 MHz	4 MB	LGA771	2	40 W	7 35858 18437 3
Dual-Core Intel Xeon Processor 5140	BX805565140P (2U passive heatsink)	2.33 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18430 4
	BX805565140A (active or 1U heatsink)	2.33 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18429 8
Dual-Core Intel Xeon Processor 5130	BX805565130P (2U passive heatsink)	2 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18432 8
	BX805565130A (active or 1U heatsink)	2 GHz	1333 MHz	4 MB	LGA771	2	65 W	7 35858 18431 1
Dual-Core Intel Xeon Processor 5120	BX805565120P (2U passive heatsink)	1.86 GHz	1066 MHz	4 MB	LGA771	2	65 W	7 35858 18434 2
	BX805565120A (active or 1U heatsink)	1.86 GHz	1066 MHz	4 MB	LGA771	2	65 W	7 35858 18433 5
Dual-Core Intel Xeon Processor 5110	BX805565110P (2U passive heatsink)	1.60 GHz	1066 MHz	4 MB	LGA771	2	65 W	7 35858 18436 6
	BX805565110A (active or 1U heatsink)	1.60 GHz	1066 MHz	4 MB	LGA771	2	65 W	7 35858 18435 9

MULTI-CORE INTEL® XEON® PROCESSOR 7000 SEQUENCE

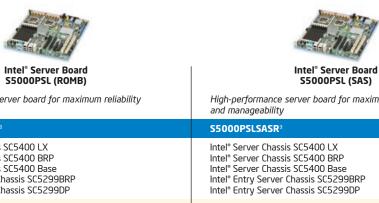
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE	# OF CPUS SUPPORTED	POWER	UPC CODE
Quad-Core Intel® Xeon® Processor X7350	BX80565X7350	2.93 GHz	1066 MHz	8 MB	PGA 604-pin	4	130 W	7 35858 19665 9
Quad-Core Intel Xeon Processor E7340	BX80565E7340	2.40 GHz	1066 MHz	8 MB	PGA 604-pin	4	80 W	7 35858 19666 6
Quad-Core Intel Xeon Processor E7330	BX80565E7330	2.40 GHz	1066 MHz	6 MB	PGA 604-pin	4	80 W	7 35858 19667 3
Quad-Core Intel Xeon Processor E7320	BX80565E7320	2.13 GHz	1066 MHz	4 MB	PGA 604-pin	4	80 W	7 35858 19668 0
Quad-Core Intel Xeon Processor E7310	BX80565E7310	1.60 GHz	1066 MHz	4 MB	PGA 604-pin	4	80 W	7 35858 19669 7
Quad-Core Intel Xeon Processor L7345	LF80565JH0368M (tray only)	1.86 GHz	1066 MHz	8 MB	PGA 604-pin	4	50 W	
Dual-Core Intel® Xeon® Processor 7220	LF80564QH0778M (tray only)	2.93 GHz	1066 MHz	8 MB	PGA 604-pin	4	80 W	
Dual-Core Intel Xeon Processor 7210	LF80564QH0568M (tray only)	2.40 GHz	1066 MHz	8 MB	PGA 604-pin	4	80 W	
Dual-Core Intel Xeon Processor 7140	BX805507140M	3.40 GHz	800 MHz	16 MB	PGA 604-pin	4+	150 W	7 35858 18925 5
Dual-Core Intel Xeon Processor 7130	BX805507130M	3.20 GHz	800 MHz	8 MB	PGA 604-pin	4+	150 W	7 35858 18926 2
Dual-Core Intel Xeon Processor 7120	BX805507120M	3 GHz	800 MHz	4 MB	PGA 604-pin	4+	95 W	7 35858 18927 9
Dual-Core Intel Xeon Processor 7110	BX805507110M	2.60 GHz	800 MHz	4 MB	PGA 604-pin	4+	95 W	7 35858 18928 6

^{*}Other names and brands may be claimed as the property of others.



INTEL® SERVER BOARDS







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Boards	Intel® Server Board S5400SF	Intel® Server Board S5000PSL (ROMB)	Intel® Server Board S5000PSL (SAS)
	Dual-processor server board with large memory footprint for high-performance and high-density computing	High-performance server board for maximum reliability and manageability	High-performance server board for maximum reliability and manageability
Order Code	S5400SF	S5000PSLROMBR ³	S5000PSLSASR ³
Intel [®] Server Chassis Support	Intel® Server System SR1560SF (integrated system) Intel® Server System SR1560SFHS (integrated system)	Intel® Server Chassis SC5400 LX Intel® Server Chassis SC5400 BRP Intel® Server Chassis SC5400 Base Intel® Entry Server Chassis SC5299BRP Intel® Entry Server Chassis SC5299DP	Intel® Server Chassis SC5400 LX Intel® Server Chassis SC5400 BRP Intel® Server Chassis SC5400 Base Intel® Entry Server Chassis SC5299BRP Intel® Entry Server Chassis SC5299DP
Processor Support ¹	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
Number of Processors Supported	2	2	2
System Bus Speed	1600 MHz² / 1333 MHz / 1066 MHz	1333 MHz ⁴ / 1066 MHz / 667 MHz	1333 MHz ⁴ / 1066 MHz / 667 MHz
Chipset	Intel® 5400 Chipset	Intel® 5000P Server Chipset	Intel® 5000P Server Chipset
Independent PCI Buses	4	6	7
Total Slots	1	6	6
Slot Types	1 x PCI Express* 2.0 x16 (2nd Gen PCIe) Optional Intel® I/O Expansion Module (Ext 4-port SAS; Dual GigE; IB)	3 x PCI Express* x8 1 x PCI Express x4 <i>(x8 Connector)</i> 2 x PCI-X 64-bit 100/133 MHz	2 x PCI Express* x8 2 x PCI Express x4 (x8 Connectors) 2 x PCI-X 64-bit 100/133 MHz
Memory Capacity	64 GB ECC Fully Buffered DDR2 (16 DIMMs)	32 GB ECC FBDIMMs (8 DIMMs)	32 GB ECC FBDIMMs (8 DIMMs)
Integrated SCSI	Not available	Not available	Not available
Integrated ATA	1-port for optical drive support	1 channel supporting up to 2 IDE devices	1 channel supporting up to 2 IDE devices
Integrated Serial ATA	6-port SATA (3.0 Gb/s) and RAID 0, 1, 10, and optional RAID 5	Enhanced support for 6-ports at 3.0 Gb/s with RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	2-port SATA (3.0 Gb/s) with RAID 0, 1, and 10
Integrated Active SAS Controller	Not available on board. Option is available for hot swap integrated system	8-port SAS via included ROMB card (Supports optional upgrade to hardware RAID 0, 1, 5, 10, 50)	4-port SAS with Intel® Embedded RAID Technology II providing RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 32 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)
Intel® RAID Support	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and upgradeable to full-featured integrated RAID, and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers







Boards	Intel® Server Board S5000PSL (SATA)	Intel® Workstation Board S5000XVN (SAS)	Intel® Workstation Board S5000XVN (SATA)
	High-performance server board for maximum reliability and manageability	High-performance dual processor workstation board	High-performance dual processor workstation board
Order Code	S5000PSLSATAR ³	S5000XVNSASR ³	S5000XVNSATAR ³
Intel® Server Chassis Support	Intel® Server Chassis SC5400 LX Intel® Server Chassis SC5400 BRP Intel® Server Chassis SC5400 Base Intel® Entry Server Chassis SC5299BRP Intel® Entry Server Chassis SC5299DP	Intel® Server Chassis SC5400 Base Intel® Entry Server Chassis SC5299WS	Intel® Server Chassis SC5400 Base Intel® Entry Server Chassis SC5299WS
Processor Support ¹	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
Number of Processors Supported	2	2	2
System Bus Speed	1333 MHz ⁴ / 1066 MHz / 667 MHz	1333 MHz ⁴ / 1066 MHz / 667 MHz	1333 MHz ⁴ / 1066 MHz / 667 MHz
Chipset	Intel® 5000P Server Chipset	Intel® 5000X Server Chipset	Intel® 5000X Server Chipset
Independent PCI Buses	6	6	5
Total Slots	6	5	5
Slot Types	3 x PCI Express* x8 1 x PCI Express x4 (x8 Connector) 2 x PCI-X 64-bit 100/133 MHz	1 x PCI Express* x16 2 x PCI Express x4 (x8 Connectors) 2 x PCI-X 64-bit 100/133 MHz	1 x PCI Express* x16 1 x PCI Express x8 1 x PCI Express x4 (x8 Connector) 2 x PCI-X 64-bit 100/133 MHz
Memory Capacity	32 GB ECC FBDIMMs (8 DIMMs)	32 GB ECC FBDIMMs (8 DIMMs)	32 GB ECC FBDIMMs (8 DIMMs)
Integrated SCSI	Not available	Not available	Not available
Integrated ATA	1 channel supporting up to 2 IDE devices	1 channel supporting up to 2 IDE devices	1 channel supporting up to 2 IDE devices
Integrated Serial ATA	Enhanced SATA provides 6-ports and RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	2-port SATA (3.0 Gb/s) with RAID 0, 1, and 10	6-port SATA (3.0 Gb/s) with RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5
Integrated Active SAS Controller	Not available	4-port SAS with Intel® Embedded RAID Technology II providing RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	Not available
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	Not available	Not available
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0
Intel® RAID Support	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and upgradable to full-featured integrated RAID, and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers









Boards	Intel® Server Board S5000VSA (SATA)	Intel® Server Board S5000VSA (SCSI)	Intel® Server Board S5000VSA (4 DIMM)	Intel® Server Board S5000VSA (SAS)
	Entry server board for small and medium businesses	Entry server board for small and medium businesses	Entry server board for small and medium businesses	Entry server board for small and medium businesses
Order Code	S5000VSASATAR ³	S5000VSASCSIR ³	S5000VSA4DIMMR ³	S5000VSASASR ³
Intel® Server Chassis Support	Intel® Entry Server Chassis SC5299DP Intel® Entry Server Chassis SC5299BRP Intel® Entry Server System SR2520SAX	Intel® Entry Server Chassis SC5299DP Intel® Entry Server Chassis SC5299BRP	Intel® Entry Server Chassis SC5299DP Intel® Entry Server System SR2520SAF	Intel® Entry Server Chassis SC5299DP Intel® Entry Server Chassis SC5299BRP Intel® Entry Server System SR2520SAXS
Processor Support ¹	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
Number of Processors Supported	2	2	2	2
System Bus Speed	1333 MHz ⁴ / 1066 MHz / 667 MHz	1333 MHz ⁴ / 1066 MHz / 667 MHz	1333 MHz ⁴ / 1066 MHz / 667 MHz	1333 MHz ⁴ / 1066 MHz / 667 MHz
Chipset	Intel® 5000V Server Chipset	Intel® 5000V Server Chipset	Intel® 5000V Server Chipset	Intel® 5000V Server Chipset
Independent PCI Buses	4	4	4	4
Total Slots	5	5	5	5
Slot Types	2 x PCI Express* x4 (x8 Connectors) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 (x8 Connectors) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 (x8 Connectors) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 <i>(x8 Connectors)</i> 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz
Memory Capacity	16 GB ECC FBDIMMs (8 DIMMs)	16 GB ECC FBDIMMs (8 DIMMs)	8 GB ECC FBDIMMs (4 DIMMs)	16 GB ECC FBDIMMs (8 DIMMs)
Integrated SCSI	Not available	Single Channel SCSI Add-in Card at 133 MHz	Not available	Not available
Integrated ATA	1 channel supporting up to 2 IDE devices	1 channel supporting up to 2 IDE devices	1 channel supporting up to 2 IDE devices	1 channel supporting up to 2 IDE devices
Integrated Serial ATA	Enhanced SATA provides 6-ports and RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	Enhanced SATA provides 6-ports and RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	6 channels (3.0 Gb/s) with support for RAID 0, 1, and 10	2-port SATA (3.0 Gb/s) with RAID 0, 1, and 10
Integrated Active SAS Controller	Not available	Not available	Not available	4-port SAS with Intel* Embedded Server RAID Technology II providing RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0
Intel® RAID Support	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and upgradable to full-featured integrated RAID, and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and upgradable to full-featured integrated RAID, and compatible with Intel® RAID Controllers







Boards	Intel® Server Board S5000PAL	Intel® Entry Server Board S3000AHLX	Intel® Entry Server Board S3000AH
	Outstanding performance, dependability, and manageability for high-density solutions	Entry server board with essential server-class features	Entry server board with essential server-class features
Order Code	S5000PALR ³	S3000AHLX	S3000AHLC
Intel® Server Chassis Support	Intel® Server Chassis SR1500 (1U) Intel® Server Chassis SR1550 (1U Redundant) Intel® Server Chassis SR2500 (2U) Integrated systems also available	Intel® Server Chassis SC5295UP Intel® Server System SR1530AHLX Intel® Server System SR1530HAHLX	Intel* Server Chassis SC5295UP Intel* Server System SR1530AH
Processor Support ¹	Multi-Core Intel® Xeon® processor	Intel® Xeon® 3200 series, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, and Intel® Celeron® D processors	Intel® Xeon® 3200 series, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, and Intel® Celeron® D processors
Number of Processors Supported	2	1	1
System Bus Speed	1333 MHz ⁴ / 800 MHz / 667 MHz	1066 MHz / 800 MHz / 533 MHz	1066 MHz / 800 MHz / 533 MHz
Chipset	Intel® 5000P Chipset	Intel® 3000 Server Chipset	Intel® 3000 Server Chipset
Independent PCI Buses	4	6	5
Total Slots	5 (2U) 2 (1U)	5	5
Slot Types	PCI adapter cards are supported in the PCI-X and PCI-Express* formats and accessed through two riser slots: 1U Chassis: Up to two adapter card slots 2U Chassis: Up to five adapter card slots plus Intel* I/O Expansion Module.	1 x PCI Express* x1 1 x PCI-X 64-bit/133 MHz 2 x PCI 32-bit/33 MHz 1 x Intel® Adaptive Slot supporting PCI Express x8 or PCI-X 64-bit/133 MHz	1 x PCI Express* x8 1 x PCI Express x4 1 x PCI Express x1 2 x PCI 32-bit/33 MHz
Memory Capacity	32 GB ECC Fully Buffered DDR2 (8 DIMMs)	Dual memory-channel, four DIMM slots for DDR2 533/667 Unbuffered ECC/non-ECC DIMMs (8 GB Max)	Dual memory-channel, four DIMM slots for DDR2 533/667 Unbuffered ECC/non-ECC DIMMs <i>(8 GB Max)</i>
Integrated SCSI	Not available	Not available	Not available
Integrated ATA	1 channel supporting 1 IDE-100 Optical Drive	1 channel supporting up to 2 IDE devices	1 channel supporting up to 2 IDE devices
Integrated Serial ATA	Enhanced SATA provides 6-ports and RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	4-port SATA (3.0 Gb/s)	4-port SATA (3.0 Gb/s)
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0	Intel® Server Essentials 2.0
Intel® RAID Support	Includes Intel® Embedded RAID Technology and upgradable to full-featured integrated RAID, and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers







Boards	Intel® Entry Server Board S3000AHV	Intel® Workstation Board S975XBX2	Intel® Server Board X38ML
	Entry server board with essential server-class features	Essential features for entry-level workstations	Small form factor server board for high-performance and high-density computing
Order Code	S3000AHV	S975XBX2	X38ML
Intel® Server Chassis and Platform Support	Intel® Server Chassis SC5295UP	3rd party ATX Chassis	Intel® Server System SR1520ML
Processor Support ¹	Intel® Xeon® 3200 series, Intel® Pentium® D, Intel® Pentium® 4, and Intel® Celeron® D processors	Intel® Core™2 Extreme Edition, Intel® Core™2 Quad⁵, Intel® Core™2 Duo, Intel® Pentium® Extreme Edition, Intel® Pentium® D, Intel® Pentium® 4 Extreme Edition, and Intel® Pentium® 4 processors in the LGA775 package	Intel® Xeon® 3200 and 3000 series, Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Core™2 Extreme Quad-Core, Intel® Core™2 Extreme Dual-Core, Quad-Core Intel® Xeon® 3300 series, and Dual-Core Intel® Xeon® 3100 series processors
Number of Processors Supported	1	1	1
System Bus Speed	1066 MHz / 800 MHz / 533 MHz	1066 MHz	1333 MHz ⁴ / 1066 MHz / 800 MHz
Chipset	Intel® 3000 Server Chipset	Intel® 975X Express Chipset	Intel® X38 Express Chipset
Independent PCI Buses	4	5	1
Total Slots	4	5	1
Slot Types	1 x PCI Express* x8 1 x PCI Express x4 2 x PCI 32-bit/33 MHz	1 PCI Express* x16 (electrical x16/x8) 1 PCI Express x16 (electrical x8) 1 PCI Express x16 (electrical x4) 2 PCI 32-bit/33 MHz	1 x PCI Express* 2.0 x16 (2nd Gen PCIe)
Memory Capacity	Dual memory-channel, four DIMM slots for DDR2 533/667 Unbuffered ECC/non-ECC DIMMs (8 GB Max)	DDR2 800 SDRAM, Dual-channel (8 GB Max)	Dual memory-channel, four DIMM slots for DDR2 667/800 Unbuffered ECC/non-ECC DIMMs <i>(8 GB Max)</i>
Integrated SCSI	Not available	Not available	Not available
Integrated ATA	1 channel supporting up to 2 IDE devices	1 channel	Not available
Integrated Serial ATA	4-port SATA (3.0 Gb/s)	4-port SATA (3.0 Gb/s) Discrete SATA RAID Controller with 4 additional SATA ports (3.0 Gb/s)	4-port SATA (3.0 Gb/s)
Integrated LAN	1 x Intel® Gigabit Ethernet Controller	1 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	Not available	ServerEngines* iBMC
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0
Intel® RAID Support	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Intel® Matrix Storage Technology	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers







Boards	Intel® Entry Server Board S3210SHLX	Intel® Entry Server Board S3210SHLC	Intel® Entry Server Board S3200SHV
	Entry server board with essential server-class features	Essential server features for entry-level applications	Essential server features for entry-level applications
Order Code	S3210SHLX	S3210SHLC	S3200SHV
Intel® Server Chassis and Platform Support	Intel® Server Chassis SC5299UP	Intel® Server Chassis SC5299UP	Intel® Server Chassis SC5299UP
Processor Support ¹	Intel® Xeon® 3200 and 3000 series, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, Quad-Core Intel® Xeon® 3300 series, and Dual-Core Intel® Xeon® 3100 series processors	Intel® Xeon® 3200 and 3000 series, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, Quad-Core Intel® Xeon® 3300 series, and Dual-Core Intel® Xeon® 3100 series processors	Intel® Xeon® 3200 and 3000 series, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, Quad-Core Intel® Xeon® 3300 Series, and Dual-Core Intel® Xeon® 3100 series processors
Number of Processors Supported	1	1	1
System Bus Speed	1333 MHz ⁴ / 1066 MHz / 800 MHz	1333 MHz ⁴ / 1066 MHz / 800 MHz	1333 MHz ⁴ / 1066 MHz / 800 MHz
Chipset	Intel® 3210 Server Chipset	Intel® 3210 Server Chipset	Intel® 3200 Chipset
Independent PCI Buses	6	5	4
Total Slots	5	5	4
Slot Types	1 x PCI Express* x16 w/x16 connector 1 x PCI Express x8 w/x8 connector 2 x PCI-X 64/133MHz 1 x PCI 32/33 <i>(5V)</i>	1 x PCI Express* x16 w/x16 connector 1 x PCI Express x8 w/x8 connector 1 x PCI Express x4 2 x PCI 32-bit/33 MHz	1 x PCI Express* x8 1 x PCI Express x4 2 x PCI 32-bit/33 MHz
Memory Capacity	Dual memory-channel, four DIMM slots for DDR2 667/800 Unbuffered ECC/non-ECC DIMMs <i>(8 GB Max)</i>	Dual memory-channel, four DIMM slots for DDR2 667/800 Unbuffered ECC/non-ECC DIMMs (8 GB Max)	Dual memory-channel, four DIMM slots for DDR2 533/667/800 Unbuffered ECC/non-ECC DIMMs (8 GB Max)
Integrated SCSI	Not available	Not available	Not available
Integrated ATA	Not available	Not available	Not available
Integrated Serial ATA	6-port SATA (3.0 Gb/s)	6-port SATA (3.0 Gb/s)	6-port SATA (3.0 Gb/s)
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	1 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ServerEngines* iBMC with 8 MB memory	ServerEngines* iBMC with 8 MB memory	ServerEngines* iBMC with 8 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0
Intel® RAID Support	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers

¹ Refer to http://support.intel.com/support/motherboards/server for up-to-date details on processors supported by each server board.

All products and dates specified are preliminary based on current expectations and are subject to change without notice. Availability in different channels may vary.

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² 1600 MHz support may require updates that may not be available at launch.

³ Order codes ending in "R" designate refreshed products that now support the new generation of 45nm processors. Please see the supported processor page for each product on support.intel.com for a full list of supported processors.

⁴ 1333 MHz support may require updates that may not be available at launch.

⁵ May require latest board revision, visit www.intel.com/products/desktop/motherboard/index.htm for more information.



Intel® Server Essentials

Making IT easy for small and midsize businesses

Small and midsize businesses (SMBs) face complex IT challenges similar to those of large enterprises, but often without the large budget or staff of IT specialists.

Intel® Server Essentials offers software and hardware solutions that:

- Make it easy to set up and maintain a reliable and secure IT infrastructure
- Reduce the cost and time of managing servers, desktops, and applications
- Keep businesses running 24/7



Intel® Server Essentials has the answer

The family of Intel Server Essentials solutions, available with Intel® Server products, includes:

- Intel® Server Deployment Toolkit 2.0 (CD)
 With Intel® Deployment Assistant and other system utilities and drivers
- Intel* System Management Software 2.0 (CDs)
 With Microsoft* System Center Essentials 2007,
 Intel* Server Management Pack for Windows*, and other system utilities
- Intel* Remote Management Module 2 (Intel* RMM2)
 An optional accessory available for selected Intel
 Server products

The IT challenge

Businesses of all sizes want to upgrade their technology and automate processes so they can reduce costs and increase productivity. However, getting new systems set up can be a hassle, especially for SMBs that have:

- Small or part-time IT staff
- Limited budgets for software and hardware expenditures
- Low tolerance, time, and expertise for complicated IT solutions

Keeping pace with required changes while ensuring that systems perform optimally and remain secure can be overwhelming. Intel has a solution: software and hardware packages that are designed for small and midsize companies to fit their budget and address their specific challenges. Intel® Server Essentials simplifies management of the whole network and streamlines the full range of IT activities—from building and setting up servers to managing the IT environment—all from a single console.

Fast Setup with Intel® Server Deployment Toolkit 2.0

Each Intel® Server Board ships with the Intel® Server Deployment Toolkit 2.0 CD, which streamlines server setup and configuration. This toolkit includes the Intel® Deployment Assistant and additional configuration utilities.

Intel® Deployment Assistant

Intel Deployment Assistant reduces the complexity and time associated with setting up Intel® servers. Server deployment time is often cut by an hour or more per system, and even more time can be saved when using the cloning feature to deploy identical servers.

The wizard automatically locates and retrieves the latest drivers, BIOS, and firmware updates. It steps through questions allowing the user to quickly configure the server via automatic recognition of server hardware, minimal reboots, and an automated unattended OS installation.

FEATURES	BENEFITS
Wizard-based user interface	Reduces complexity while providing comprehensive guidance in the deployment of Intel® servers.
Automatic detection of server configuration and components	Eliminates steps and saves time by detecting key configuration information including BIOS, LAN, and server management settings, and updating your system.
Load configuration profiles for identical servers	Reduces redundant tasks by saving and loading configuration settings from one server to identical servers.
Wizard-guided RAID configuration	Configures RAID from a single console with simple step-by-step instructions.
Automatic detection of available software updates	Minimizes uncertainty by automatically locating the latest drivers, firmware, and BIOS from the Internet, corporate network, or USB sources.
Unattended OS installation	Saves time—simply answer configuration questions, choose the drivers to include, and pop in the operating system CD.



Simplify with Intel® System Management Software 2.0

With 70 percent of IT costs tied to management and monitoring and only 30 percent tied to the cost of installation, centralizing and automating network or IT management tasks lowers management costs and enables scalability. Each Intel® server board ships with a copy of Intel® System Management Software 2.0, a comprehensive software suite designed to ease management of the entire IT environment through a single, unified console. Included with this powerful set of applications is Microsoft* System Center Essentials 2007 (Essentials 2007), a new management solution in the System Center family of products designed to specifically address IT management for small to midsize businesses with up to 30 servers and 500 clients. More than just a dashboard with data, the Essentials 2007 console provides expert knowledge for solving problems, tools for streamlining daily activities, and reports and tips that help IT staff efficiently monitor and maintain network health and security. Intel System Management Software 2.0 also comes with Intel® Server Management Pack for Windows*. This hardware management pack complements Essentials 2007 with specific support of Intel server features—enabling maximum control and monitoring of these servers.

Microsoft* System Center Essentials 2007

With Essentials 2007, IT staffers at small and midsize businesses are no longer slowed down by using more than one application to get the IT management job done.

Through a single console, Essentials 2007 unifies:

- Problem detection and troubleshooting for all aspects of the network
- Service-level monitoring of business critical applications such as e-mail
- Asset tracking and reporting for simple, up-to-the-minute inventory information
- Security updates and patching of the OS, applications, and hardware
- Remote software distribution and installation of applications on servers and clients

This unified experience increases productivity and reduces costs because IT staff can save time by performing a broad set of daily and maintenance tasks from a single console. Reports, alerts, and automated patches help keep the IT environment up-to-date and more secure.

Intel® Server Management Pack for Windows*

Intel Server Management Pack for Windows, a hardware management pack for Intel servers, enables administrators to efficiently monitor chassis and baseboard sensors including temperature, fan status, and voltage levels through an integrated management console. It works seamlessly with Essentials 2007 providing the best possible monitoring of overall system health with the technical details that help keep the server hardware healthy and stable.

Microsoft* System Center	Microsoft* System Center Essentials 2007					
Features	Benefits					
Single, easy-to-use console	Increases productivity and saves time by centralizing tasks on a single console to manage servers, clients, and other IT assets.					
Proactive management	Identifies problems before they impact end users, provides expert knowledge when problems occur, reduces troubleshooting time, and helps get systems up and running.					
Automated hardware and software inventories	Improves asset planning, management, and compliance through automated hardware and software inventories.					
Automated updates, alerts, and reports	Lowers risks and reduces downtime with an easy-to-use interface that automatically monitors software and hardware components and alerts administrators of critical issues.					
Wizards and templates	Saves time and reduces confusion with built-in intelligence provided by wizards and templates that simplify tasks.					
Online training videos and context-sensitive help	Provides training and help on demand—no need to schedule and attend classes.					

Finding the Right Fit

For small to midsize businesses, one of the most costly aspects of IT departments, in terms of money, resources, and productivity, is managing PCs, servers, and software on the network. Many critical IT tasks, such as patches, updates, and daily maintenance, must be performed during work hours when they interrupt employees or cause server downtime. At the same time, you need to physically visit PCs and servers when systems cannot be located, diagnosed, repaired, or remediated down the wire.

Intel* System Management Software is specifically designed for IT professionals in small to midsize businesses who often face IT challenges similar to those of larger enterprises—troubleshooting end-user problems, automating management tasks, managing multiple systems, and diagnosing and resolving IT problems—but who don't have the luxury of a full staff of specialists.

Intel offers several different licensing options for the Intel System Management Software with Microsoft* System Center Essentials 2007 ranging from a single server license to a combination of server and client licenses to manage up to 30 servers and 500 clients. Add licenses to the Single Server Edition that ships with the Intel® server boards and systems to meet your specific needs.

EDITION	DESCRIPTION	AVAILABLE FROM	ORDER INFORMATION
Single Server Edition	Microsoft* System Center Essentials 2007 with one server license	Shipped exclusively with Intel® server boards and systems	Ships with Intel server boards and system at no additional charge as an integrated part of the Intel® System Management Software offering
Small Network Edition	Adds 5 server and 15 client management licenses to the Single Server Edition	From Intel or authorized resellers and OEMs	SMS2SSE2SNE Upgrade from Single Server Edition to Small Network Edition
Standard Edition Upgrade	Adds 10 server and 50 client management licenses to the Single Server Edition and can be scaled to manage up to 30 servers and 50 clients with the purchase of additional client and server management licenses	From Intel or authorized resellers and OEMs	SMS2SNE2STD Upgrade from Small Network Edition to Standard Edition SMS2SSE2STD Upgrade from Single Server Edition to Standard Edition
Client Management License	Adds client management licenses to the Standard Edition in either 5 or 20 increments	From Intel or authorized resellers and OEMs	SMS2CAL5C Microsoft System Center Essentials 2007 Client Management License (5 Pack) SMS2CAL2OC Microsoft System Center Essentials 2007 Client Management License (20 Pack)
Server Management License	Adds sever management licenses to the Standard Edition in either 1 or 5 increments	From Intel or authorized resellers and OEMs	SMS2CAL1S Microsoft System Center Essentials 2007 Server Management License (1 Pack) SMS2CAL5S Microsoft System Center Essentials 2007 Server Management License (5 Pack)

Get peace of mind

Intel® Server Essentials improves security, reduces costs, and helps businesses move from reactive to proactive system management. A mix of hardware and software enables secure remote management and monitoring of servers, clients, and applications from virtually any location—in a way that IT generalists can understand without attending weeks of training. It's all about IT made easy:

Simple

- Makes it easy to set up and maintain a reliable and secure IT infrastructure
- Streamlines tasks throughout server life cycle with remote management
- Manages IT functions with a single suite of tools
- Reduces travel time and onsite service calls with remote monitoring

Secure

- Keeps IT informed with automated daily health reports and alerts
- Delivers the power of Microsoft* System Center Essentials 2007 for streamlining daily management activities
- Improves reliability and stability with rapid application and patch deployment

Smart

- Designed specifically for small to midsize business
- Reduces travel time and costs
- Provides a proactive solution to server management with reports and alerts



For more information, visit the Intel Web site at: www.intel.com/go/serveressentials

Features and Functions of Microsoft* System Center Essentials 2007 and the Intel® Management Packs are dependent on the features and functions available on the server and client hardware and the loaded software and operating systems. Not all features and functions are available on all products and may require Intel® AMT or IPMI technologies for additional functionality. Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and other countries.



INTEL® SERVER CHASSIS



Chassis

Intel® Server Chassis SC5400

Maximum reliability, scalability, and manageability in a highly versatile Intel® server chassis

Configuration	Base	BRP	LX	LXI
Chassis Order Code ¹	SC5400BASE SC5400BASENA	SC5400BRP SC5400BRPNA	SC5400LX SC5400LXNA	SC5400LXI SC5400LXINA
Spares Kit Order Code	Maintenance kit: ARIG2PMKIT	Maintenance kit: ARIG2PMKIT	Maintenance kit: ARIG2PMKIT	Maintenance kit: ARIG2PMKIT
Form Factor	Pedestal or 5U rack (Requires rack conversion kit ARIGRACK)	Pedestal or 5U rack (Requires rack conversion kit ARIGRACK)	Pedestal or 5U rack (Requires rack conversion kit ARIGRACK)	Pedestal or 5U rack (Requires rack conversion kit ARIGRACK)
Intel® Server Board Support²	Intel® Server Boards S5000PSL and S5000XVN	Intel® Server Board S5000PSL	Intel® Server Board S5000PSL	Intel® Server Board S5000PSL
Drive Bays	One tool-less fixed drive bay for up to six fixed drives Optional hot-swap/tool-less drive bays available: 6-drive SAS/SATA	One tool-less fixed drive bay for up to six fixed drives Optional hot-swap/tool-less drive bays available: 6-drive SAS/SATA, 4-drive SAS/SATA Optional 4-drive tool-less fixed drive bay	One tool-less fixed drive bay for up to six fixed drives Optional hot-swap/tool-less drive bays available: 6-drive SAS/SATA, 4-drive SAS/SATA Optional 4-drive tool-less fixed drive bay	Includes one hot-swap 6-drive SAS/SATA drive bay—AXX6DRV3G
Hot-Swap Disk Drive Bay: Order Code	Up to six hot-swap drive bays via the following hot-swap disk drive bay upgrade kits: 6-drive SAS/SATA—AXX6DRV3G 6-drive SAS/SATA Expander—AXX6DRV3GEXP	Up to ten hot-swap drive bays are possible with the combination of the following drive bay upgrade kits: 6-drive SAS/SATA—AXX6DRV3G 6-drive SAS/SATA Expander—AXX6DRV3GEXP 4-drive SAS/SATA Expander—AXX4DRV3G 4-drive SAS/SATA Expander—AXX4DRV3GEXP	Up to ten hot-swap drive bays are possible with the combination of the following drive bay upgrade kits: 6-drive SAS/SATA—AXX6DRV3G 6-drive SAS/SATA Expander—AXX6DRV3GEXP 4-drive SAS/SATA Expander—AXX4DRV3G 4-drive SAS/SATA Expander—AXX4DRV3GEXP	Up to ten hot-swap drives are possible with the combination of the following drive bay upgrade kits: 4-drive SAS/SATA—AXX4DRV3G 4-drive SAS/SATA Expander—AXX4DRV3GEXP
System Cooling	Includes two system fans plus one power supply fan	Includes two system fans plus one power supply fan	Supports redundant cooling with four high-flow system fans plus up to two power supply fans	Supports hot-swap, redundant cooling with four high-flow system fans plus two power supply fans
Power Supply	670-watt PFC	830-watt, dual-line cord, 1+1 PFC	830-watt, dual-line cord, 1+1 PFC	830-watt, dual-line cord, 1+1 PFC (Two included in the chassis)
Redundant Power Capable	Yes (via upgrade kit)	Yes (fully redundant configuration requires second power module FXX830WPSU)	Yes (fully redundant configuration requires second power module FXX830WPSU)	Yes, second, fully redundant power supply (FXX830WPSU) included.
Tool-less Features	Fixed hard drive install and removal, fixed or hot-swap drive bays, 5.25 peripheral install and removal, optional rack rails, optional cable management arm	Fixed hard drive install and removal, fixed or hot-swap drive bays, 5.25 peripheral install and removal, optional rack rails, optional cable management arm	Fixed hard drive install and removal, fixed or hot-swap drive bays, 5.25 peripheral install and removal, cooling fans, optional rack rails, optional cable management arm	Hot-swap drive bays, 5.25 peripheral install and removal, cooling fans, optional rack rails, optional cable management arm
Dimensions (H x W x D)	17.5" (445mm) x 8.6" (218mm) x 26.9" (683mm)	17.5" (445mm) x 8.6" (218mm) x 26.9" (683mm)	17.5" (445mm) x 8.6" (218mm) x 26.9" (683mm)	17.5" (445mm) x 8.6" (218mm) x 26.9" (683mm)
Bezel Features	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED
Front Connectors	2 x USB 1 x Serial	2 x USB 1 x Serial	2 x USB 1 x Serial	2 x USB 1 x Serial





Chassis		Intel® Server Chassis SC5295-E					
	A rel	A reliable, quiet, and flexible server chassis for entry-level server and workstation applications					
Configuration	WS	BRP	DP	UP	UP		
Chassis Order Code ¹	SC5299WS SC5299WSNA	SC5299BRP SC5299BRPNA	SC5299DP SC5299DPNA	SC5299UP SC5299UPNA	SC5295UP SC5295UPNA		
Spares Kit Order Code	Maintenance kit: FPP4PMKIT	Maintenance kit: FPP4PMKIT	Maintenance kit: FPP4PMKIT	Maintenance kit: FPP4PMKIT	Maintenance kit: FPP3PMKIT		
Form Factor	Pedestal and Rack	Pedestal and Rack	Pedestal and Rack	Pedestal and Rack	Pedestal and Rack		
Intel® Server Board Support²	Intel® Server Board S5000XVN	Intel® Server Boards S5000PSL and S5000VSA	Intel® Server Boards S5000PSL and S5000VSA	Intel® Server Boards S3210SHLX, S3210SHLC, and S3200SHV	Intel® Server Board Server Board S3000AH, S3000AHLX, and S3000AHV		
Drive Bays	6 x fixed hard drives 1 x 3.5" floppy 2 x 5.25" bays	6 x fixed hard drives 1 x 3.5" floppy 2 x 5.25" bays	6 x fixed hard drives 1 x 3.5" floppy 2 x 5.25" bays	6 x fixed hard drives 1 x 3.5" floppy 2 x 5.25" bays	6 x fixed hard drives 1 x 3.5" floppy 2 x 5.25" bays		
Hot-Swap Disk Drive Bay: Order Code	Optional six hot-swap drive bays via one of the following hot-swap disk drive bay upgrade kits: 6-drive SAS/SATA Expander— AXX6DRV3GEXP 6-drive SAS/SATA—AXX6DRV3G	One fixed drive bay for up to six fixed drives Optional six hot-swap drive bays via one of the following hot-swap disk drive bay upgrade kits: 6-drive SAS/SATA Expander— AXX6DRV3GEXP 6-drive SAS/SATA—AXX6DRV3G	One fixed drive bay for up to six fixed drives Optional six hot-swap drive bays via one of the following hot-swap disk drive bay upgrade kits: 6-drive SAS/SATA Expander— AXX6DRV3GEXP 6-drive SAS/SATA—AXX6DRV3G	One fixed drive bay for up to six fixed drives Optional six hot-swap drive bays via one of the following hot-swap disk drive bay upgrade kits: 6-drive SAS/SATA Expander— AXX6DRV3GEXP 6-drive SAS/SATA—AXX6DRV3G	N/A		
System Cooling	One tool-less system fan and one fixed drive bay cooling fan	One tool-less system fan	One tool-less system fan	One tool-less system fan	One fixed system fan, plus one power supply fan		
Power Supply	670-watt PFC	650-watt 1+1 PFC	550-watt PFC	420-watt PFC	350-watt PFC		
Redundant Power Capable	No	Yes (Optional second power supply sold separately)	No	Yes	No		
Tool-less Features	Peripheral bays, fixed hard drive bay, optional hot-swap bays, system fan, PCI slots	Peripheral bays, fixed hard drive bay, optional hot-swap bays, power supplies, system fan, PCI slots	Peripheral bays, fixed hard drive bay, optional hot-swap bays, system fan, PCI slots	Peripheral bays, fixed hard drive bay, optional hot-swap bays, system fan, PCI slots	Chassis side cover, peripheral bays, fixed hard drive bay, optional hot- swap bays, power supplies, system fan, PCI slots		
Pedestal Dimensions (H x W x D)	17.8" (452mm) x 9.256" (235mm) x 19" (483mm)	17.8" (452mm) x 9.256" (235mm) x 19" (483mm)	17.8" (452mm) x 9.256" (235mm) x 19" (483mm)	17.8" (452mm) x 9.256" (235mm) x 19" (483mm)	17.8" (452mm) x 9.256" (235mm) x 19" (483mm)		
Rack Dimensions (H x W x D)	9.256" (235mm) x 17.6" (447mm) x 19" (483mm)	9.256" (235mm) x 17.6" (447mm) x 19" (483mm)	9.256" (235mm) x 17.6" (447mm) x 19" (483mm)	9.256" (235mm) x 17.6" (447mm) x 19" (483mm)	9.256" (235mm) x 17.6" (447mm) x 19" (483mm)		
Bezel Features	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED	Lockable, Black	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPPED		
Front Connectors	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB		

¹ North American power cord included in order codes ending in NA; power cord not included in all other order codes.

All products and dates specified are preliminary based on current expectations and are subject to change without notice. Availability in different channels may vary.

 $^{^2}$ Refer to http://support.intel.com/support/motherboards/server for up-to-date details on server boards supported by each chassis.

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^{*}Other names and brands may be claimed as the property of others.



INTEL® SERVER SYSTEMS







Sustam	Intal® Samuer System SD155055	Intal® Samuer System SD15C05SUS	Intel® Comer Cretem CD1 F0001
System	Intel® Server System SR1560SF	Intel® Server System SR1560SFHS	Intel® Server System SR1500AL
	1U rack-optimized server system for high-performance and high-density computing	1U rack-optimized server system for high-performance and high-density computing	1U rack-optimized server system for flexible high-density server solutions
Order Code ¹	SR1560SF	SR1560SFHS	SR1500ALR
Components Included	Intel® Server Board S5400SF Intel® Server Chassis SR1560 One PCI Express* x16 riser card supporting full-height/full-length add-in card Standard control panel Pre-routed cables	 Intel® Server Board S5400SF Intel® Server Chassis SR1560 One PCI Express* x16 riser card supporting full-height/full-length add-in card Standard control panel Pre-routed cables 	 Intel® Server Board S5000PALR Intel® Server Chassis SR1500 One low-profile PCI Express* riser, one full-height/full-length PCI Express riser Passive SAS/SATA backplane Standard control panel Pre-routed cables
Number of Processors Supported	2	2	2
Processor Support ²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
System Bus Speed	1600 MHz ⁴ / 1333 MHz / 1066 MHz	1600 MHz ⁴ / 1333 MHz / 1066 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz
Chipset	Intel® 5400 Chipset	Intel® 5400 Chipset	Intel® 5000P Chipset
PCI Buses	4	4	4
Total Slots	1	1	2
Slot Types	1 x PCI Express 2.0 x16 (2nd Gen PCIe) Optional Intel® I/O Expansion Module (Ext 4-port SAS; Dual Port GigE; IB)	1 x PCI Express 2.0 x16 (2nd Gen PCIe) Optional Intel® I/O Expansion Module (Ext 4-port SAS; Dual Port GigE; IB)	2 x PCI Express x8 Optional Support: 1 x PCI-X 133 MHz plus Intel® I/O Expansion Module
Memory Capacity	64 GB ECC Fully Buffered DDR2 (16 DIMMs)	64 GB ECC Fully Buffered DDR2 (16 DIMMs)	32 GB ECC Fully Buffered DDR2 (8 DIMMs)
Backplane	None – Fixed Mount SATA Drive Support Only Server board has Intel® Embedded Server RAID Technology II via the ESB2 SATA controller providing RAID 0, 1, and 10.	Active SAS/SATA backplane with integrated LSI* 1064E SAS controller with Intel* Embedded Server RAID Technology II providing RAID 0,1, and 10 and optional RAID 5. Passive SATA backplane using ESB2 SATA controller from server board with Intel Embedded Server RAID Technology II via the ESB2 SATA controller providing RAID 0, 1, and 10 with optional RAID 5 support.	Hot-swap SAS/SATA passive backplane. Server board has Intel® Embedded Server RAID Technology II via the ESB2 SATA controller providing RAID 0, 1, and 10 with optional AXXRAKSW5 for RAID 5.
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 32 MB memory	ATI* with 32 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)
Intel® RAID Controller Compatibility (Order Code)³	SRCS28X SRCS16 SRCSAS18E	SRCS28X SRCS16 SRCSAS18E	SRCS28X SRCS16 SRCSAS18E
Form Factor	1U Rack	1U Rack	1U Rack
Drive Bays	2 x fixed SATA 1 x slim-line IDE Optical Drive	3 x Hot-Swap SATA/SAS (requires backplane option—Active SAS or Passive SATA) 1 x slim-line IDE Optical Drive or USB-Floppy drive	3 x hot-swap SAS/SATA Optional slim-line CD-ROM/USB-Floppy
System Cooling	Supports five managed system fans + two power supply fans	Supports five managed system fans + two power supply fans	Supports five system fans
Power Supply	600-watt, non-redundant, high efficiency, PFC	600-watt, non-redundant, high efficiency, PFC	600-watt, non-redundant PFC
Dimensions (H x W x D)	1.703" (43mm) x 16.93" (430mm) x 27.25" (692mm)	1.703" (43mm) x 16.93" (430mm) x 27.25" (692mm)	1.703" (43mm) x 16.93" (430mm) x 27.25" (692mm)

For more information, visit the Intel Web site at: www.intel.com/go/serversystems







System	Intel® Server System SR1500ALSAS	Intel® Server System SR1550AL	Intel® Server System SR1550ALSAS
	1U rack-optimized server system for flexible high-density server solutions	1U rack-optimized server system for flexible high-density server solutions with optional power redundancy	1U rack-optimized server system for flexible high-density server solutions with optional power redundancy
Order Code ¹	SR1500ALSASR	SR1550ALR	SR1550ALSASR
Components Included	Intel* Server Board S5000PALR Intel* Server Chassis SR1500 One low-profile PCI Express* riser, one full-height/full-length PCI Express riser SAS/SATA backplane with integrated SAS Controller Standard control panel Pre-routed cables	 Intel® Server Board S5000PALR Intel® Server Chassis SR1550 One low-profile PCI Express* riser, one full-height/full-length PCI Express riser Passive SAS/SATA midplane Standard control panel Pre-routed cables 1 (of 2) 650-watt power supplies 	 Intel* Server Board S5000PALR Intel* Server Chassis SR1550 One low-profile PCI Express* riser, one full-height/full-length PCI Express riser SAS/SATA midplane with integrated 8 port SAS Controller Standard control panel Pre-routed cables 1 (of 2) 650-watt power supplies
Number of Processors Supported	2	2	2
Processor Support ²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
System Bus Speed	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ^s / 1066 MHz / 667 MHz
Chipset	Intel® 5000P Chipset	Intel® 5000P Chipset	Intel® 5000P Chipset
PCI Buses	4	4	4
Total Slots	2	2	2
Slot Types	2 x PCI Express x8 Optional Support: 1 x PCI-X 133 MHz plus Intel® I/O Expansion Module	2 x PCI Express x8 Optional Support: 1 x PCI-X 133 MHz plus Intel® I/O Expansion Module	2 x PCI Express x8 Optional Support: 1 x PCI-X 133 MHz plus Intel* I/O Expansion Module
Memory Capacity	32 GB ECC Fully Buffered DDR2 (8 DIMMs)	32 GB ECC Fully Buffered DDR2 (8 DIMMs)	32 GB ECC Fully Buffered DDR2 (8 DIMMs)
Backplane	Hot-swap SAS/SATA backplane with Intel® Embedded Server RAID Technology II via a 4-port SAS controller providing RAID 0, 1, and 10 with optional AXXRAKSW5 for RAID 5.	Hot-swap SAS/SATA passive midplane. Server board has Intel® Embedded Server RAID Technology II via the ESB2 SATA controller providing RAID 0, 1, and 10.	SAS/SATA midplane with Intel* Integrated Server RAID module. Capable of RAID 0, 1, and 10. With AXXRAK18E and AXXMINIDIMM provides intelligent RAID 0, 1, 5, 10, and 50. Optional chassis mount Intel* RAID Smart Battery.
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)
Intel® RAID Controller Compatibility³	Includes Intel® Embedded RAID Technology and upgradable to full-featured integrated RAID, and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and upgradable to full-featured integrated RAID, and compatible with Intel® RAID Controllers
Form Factor	1U Rack	1U Rack	1U Rack
Drive Bays	3 x hot-swap SAS/SATA Optional slim-line CD-ROM/USB-Floppy	Up to 8 x 2.5" hot-swap SAS/SATA Optional slim-line CD-ROM	Up to 8 x 2.5" hot-swap SAS/SATA Optional slim-line CD-ROM
System Cooling	Supports five system fans	Supports five system fans	Supports five system fans
Power Supply	600-watt, non-redundant PFC	650-watt, dual-line cord 1+1 PFC (fully redundant configuration requires second power module, order code ASR1550PS)	650-watt, dual-line cord 1+1 PFC (fully redundant configuration requires a second power module, order code ASR1550PS)
Dimensions (H x W x D)	1.703" (43mm) x 16.93" (430mm) x 27.25" (692mm)	1.703" (43mm) x 16.93" (430mm) x 25.76" (654mm)	1.703" (43mm) x 16.93" (430mm) x 25.76" (654mm)







System	Intel® Server System SR2500ALBRP	Intel® Server System SR2500ALLX	Intel® Server System SR1530AHLX
Order Code ¹	SR2500ALBRPR	SR2500ALLXR	SR1530AHLX
Components Included	Intel® Server Board S5000PALR Intel® Server Chassis SR2500 One 2 slot low-profile PCI Express* riser, one full-height/ full-length PCI Express/PCI-X riser Passive SAS/SATA midplane Standard control panel Pre-routed cables 1 (of 2) 750-watt power supplies	 Intel® Server Board S5000PALR Intel® Server Chassis SR2500 One 2 slot low-profile PCI Express* riser, one full-height/full-length PCI Express/PCI-X riser SAS/SATA midplane with integrated 8 port SAS Controller Standard control panel Pre-routed cables 1 (of 2) 750-watt power supplies 	• Intel* Server Board S3000AHLX • Intel* Server Chassis with 350-watt power supply • System fan and cooling blowers with duct • Intel* 1U heatsink • Slim-line CD-ROM bay • Basic rail kit • Pre-routed cables
Number of Processors Supported	2	2	1
Processor Support ²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon®, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, and Intel® Celeron® D processors
System Bus Speed	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz	1066 MHz / 800 MHz / 533 MHz
Chipset	Intel® 5000P Chipset	Intel® 5000P Chipset	Intel® 3000 Server Chipset
PCI Buses	4	4	6
Total Slots	5	5	1
Slot Types	3 full-height, full-length slots; 1 x PCI-X 133 MHz plus Intel® I/O Expansion Module, 2 x PCI Express. 2 low-profile PCI Express	3 full-height, full-length slots; 1 x PCI-X 133 MHz plus Intel* I/O Expansion Module, 2 x PCI Express. 2 low-profile PCI Express	1 x PCI Express* x8 or 1 x PCI-X 133 MHz
Memory Capacity	32 GB ECC Fully Buffered DDR2 (8 DIMMs)	32 GB ECC Fully Buffered DDR2 (8 DIMMs)	4 x DIMM slots for DDR2 533/667 MHz Unbuffered ECC/non-ECC DIMMs <i>(8 GB Max)</i>
Integrated SCSI	Hot-swap Passive SAS/SATA midplane with Intel® Embedded Server RAID Technology II available from the 6-port ESB2 SATA controller providing RAID 0, 1, and 10.	SAS/SATA midplane with Intel® Integrated Server RAID module. Capable of RAID 0, 1, and 10. With AXXRAK18E and AXXMINIDIMM provides intelligent RAID 0, 1, 5, 10, and 50. Optional chassis mount Intel® RAID Smart Battery.	No
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0
Intel® RAID Controller Compatibility³	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and upgradable to full-featured integrated RAID, and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers
Form Factor	2U Rack	2U Rack	1U Rack
Drive Bays	Up to 6 x hot-swap SAS/SATA Optional slim-line CD-ROM/USB-Floppy	Up to 6 x hot-swap SAS/SATA Optional slim-line CD-ROM/USB-Floppy	2 x fixed 3.5" SATA <i>(3.0 Gb/s)</i> HDDs 1 x fixed slim-line CD-ROM
System Cooling	Supports three system fans	Supports six system fans (redundant and hot-swappable)	2 x fixed cooling blowers with duct 1 x system fan
Power Supply	750-watt, dual-line cord 1+1 PFC (Fully redundant configuration requires a second power module, order code ASR2500PS)	750-watt, dual-line cord 1+1 PFC (Fully redundant configuration requires a second power module, order code ASR2500PS)	350-watt PFC power supply
Dimensions (H x W x D)	3.44" (87mm) x 16.93" (430mm) x 27.95" (710mm)	3.44" (87mm) x 16.93" (430mm) x 27.95" (710mm)	1.70" (43mm) x 16.9" (430mm) x 20.0" (508mm)









System	Intel® Server System SR1530AH	Intel® Server System SR1530HAHLX	Intel® Server System SR1530CL	Intel® Server System SR1530HCL
Order Code ¹	SR1530AH SR1530AHNA	SR1530HAHLX SR1530HAHLXNA	SR1530CLR SR1530CLRNA	SR1530HCLR SR1530HCLRNA
Components Included	Intel® Server Board S3000AH Intel® Server Chassis with 350-watt power supply System fan and cooling blowers with duct Intel® 1U heatsink Slim-line CD-ROM bay Basic rail kit Pre-routed cables	Intel® Server Board S3000AHLX Intel® Server Chassis with 350-watt power supply System cooling blowers with duct Intel® 1U heatsink Slim-line CD-ROM bay Basic rail kit Pre-routed cables	 Intel* Server Board S5000VCLR (SATA) Intel* Server Chassis SR1530 400-watt non-redundant power supply One riser card supporting 2 PCI slots Slim-line CD-ROM bay Basic rail kit Pre-routed cables 	 Intel* Server Board S5000VCLR (SAS) Intel* Server Chassis SR1530H 400-watt non-redundant power supply One riser card supporting 2 PCI slots Slim-line CD-ROM bay Basic rail kit Pre-routed cables
Number of Processors Supported	1	1	2	2
Processor Support ²	Multi-Core Intel® Xeon®, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, and Intel® Celeron® D processors	Multi-Core Intel® Xeon®, Intel® Pentium® D, Intel® Pentium® Extreme Edition, Intel® Pentium® 4, and Intel® Celeron® D processors	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
System Bus Speed	1066 MHz / 800 MHz / 533 MHz	1066 MHz / 800 MHz / 533 MHz	1333 MHz ⁵ / 1066 MHz	1333 MHz ⁵ / 1066 MHz
Chipset	Intel® 3000 Server Chipset	Intel® 3000 Server Chipset	Intel® 5000V Chipset	Intel® 5000V Chipset
PCI Buses	6	6	4	4
Total Slots	1	1	2	2
Slot Types	1 x PCI Express* x8	1 x PCI Express* x8 or 1 x PCI-X 133 MHz	1 x low-profile PCI Express* x8 1 x full-height / mid-length PCI-X 133 MHz	1 x low-profile PCI Express* x8 1 x full-height / mid-length PCI-X 133 MHz
Memory Capacity	4 x DIMM slots for DDR2 533/667 MHz Unbuffered ECC/non-ECC DIMMs (8 GB Max)	4 x DIMM slots for DDR2 533/667 MHz Unbuffered ECC/non-ECC DIMMs (8 GB Max)	12 GB ECC Fully Buffered DDR2 (6 DIMMs)	12 GB ECC Fully Buffered DDR2 (6 DIMMs)
Integrated SCSI	No	No	No	No
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0
Intel® RAID Controller Compatibility³	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers
Form Factor	1U Rack	1U Rack	1U Rack	1U Rack
Drive Bays	2 x fixed 3.5" SATA (3.0 Gb/s) HDDs 1 x fixed slim-line CD-ROM	3 x hot-swap 3.5" SATA (3.0 Gb/s) HDDs 1 x fixed slim-line CD-ROM	2 x fixed 3.5" SATA HDDs Optional slim-line optical drive	3 x hot-swap 3.5" SATA HDDs Optional slim-line CD-ROM drive
System Cooling	2 x fixed cooling blowers with duct 1 x system fan	2 x fixed cooling blowers with duct	2 x fixed cooling blowers with duct 1 x system fan	2 x fixed cooling blowers with duct 1 x system fan
Power Supply	350-watt PFC power supply	350-watt non-redundant	400-watt PFC non-redundant power supply	400-watt PFC non-redundant power supply
Dimensions (H x W x D)	1.70" (43mm) x 16.9" (430mm) x 20.0" (508mm)	1.70" (43mm) x 16.92" (430mm) x 25.51" (648mm)	1.70" (43mm) x 16.9" (430mm) x 20.0" (508mm)	1.70" (43mm) x 16.92" (430mm) x 25.51" (648mm)









System	Intel® Server System SR1530HCLS	Intel® Server System SR2520SAF	Intel® Server System SR2520SAX	Intel® Server System SR2520SAXS
Order Code ¹	SR1530HCLSR SR1530HCLSRNA	SR2520SAFR SR2520SAFRNA	SR2520SAXR SR2520SAXRNA	SR2520SAXSR SR2520SAXSRNA
Components Included	Intel® Server Board S5000VCLR (SAS) Intel® Server Chassis SR1530H 400-watt non-redundant power supply One riser card supporting 2 PCl slots Slim-line CD-ROM bay Basic rail kit Pre-routed cables	 Intel* Server Board S5000VSAR (4 DIMMS) Intel* Server Chassis SR2520 600-wath non-redundant power supply System fan with duct CD and HDD assemblies Pre-routed cables 	 Intel* Server Board S5000VSAR (SATA) Intel* Server Chassis SR2520 600-watt power supply (redundancy requires optional second power supply) System fan with duct CD and HDD assemblies Pre-routed cables 	 Intel® Server Board S5000VSAR (SAS) Intel® Server Chassis SR2520 600-watt power supply (redundancy requires optional second power supply) System fan with duct CD and HDD assemblies Pre-routed cables
Number of Processors Supported	2	2	2	2
Processor Support ²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
System Bus Speed	1333 MHz⁵ / 1066 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz
Chipset	Intel® 5000V Chipset	Intel® 5000V Chipset	Intel® 5000V Chipset	Intel® 5000V Chipset
PCI Buses	4	4	4	4
Total Slots	2	5	5	5
Slot Types	1 x low-profile PCI Express* x8 1 x full-height / mid-length PCI-X 133 MHz	2 x low-profile PCI Express* x4 (x8 Connector) 2 x low-profile PCI-X 64-bit 100/133 MHz 1 x low-profile PCI 32-bit 33 MHz	2 x low-profile PCI Express* x4 (x8 Connector) 2 x low-profile PCI-X 64-bit 100/133 MHz 1 x low-profile PCI 32-bit 33 MHz	2 x low-profile PCI Express* x4 (x8 Connector) 2 x low-profile PCI-X 64-bit 100/133 MHz 1 x low-profile PCI 32-bit 33 MHz
Memory Capacity	12 GB ECC Fully Buffered DDR2 (6 DIMMs)	8 GB ECC Fully Buffered DDR2 (8 DIMMs)	16 GB ECC Fully Buffered DDR2 (8 DIMMs)	16 GB ECC Fully Buffered DDR2 (8 DIMMs)
Integrated SCSI	No	No	No	No
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0
Intel® RAID Controller Compatibility³	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel* Embedded RAID Technology and compatible with Intel* RAID Controllers
Form Factor	1U Rack	2U Rack	2U Rack	2U Rack
Drive Bays	3 x hot-swap 3.5" SAS HDDs Optional slim-line CD-ROM drive	Up to 6 x 3.5" fixed SATA drives Optional slim-line CD-ROM drive	Up to 6 x 3.5" hot-swap SATA drives Optional slim-line CD-ROM	Up to 6 x 3.5" hot-swap SAS/SATA drives Optional slim-line CD-ROM
System Cooling	2 x fixed cooling blowers with duct 1 x system fan	Supports three system fans	Supports three system fans	Supports three system fans
Power Supply	400-watt PFC non-redundant power supply	600-watt PFC non-redundant power supply	600-watt, dual-line cord 1+1 PFC (fully redundant configuration requires a second power module, order code TLIACPSU003)	600-watt, dual-line cord 1+1 PFC (fully redundant configuration requires a second power module, order code TLIACPSU003)
Dimensions (H x W x D)	1.70" (43mm) x 16.92" (430mm) x 25.51" (648mm)	3.44" (87mm) x 16.93" (430mm) x 25.55" (649mm)	3.44" (87mm) x 16.93" (430mm) x 25.55" (649mm)	3.44" (87mm) x 16.93" (430mm) x 25.55" (649mm)







System	Intel® Server System SR1520ML	Intel® Server System SR1530SH	Intel® Server System SR1530HSH
	Two independent uniprocessor systems in a 1U package for high-performance and high-density computing		
Order Code ¹	SR1520ML SR1520MLNA	SR1530SH SR1530SHNA	SR1530HSH SR1530HSHNA
Components Included	Two Intel® Server Boards X38ML Integrated in the Intel® Server Chassis SR1520ML Two Intel® 1U heatsinks Two PCI Express* x16 risers Support for two 2.5" fixed SATA drives 600-watt high-efficiency power supply Basic rail kit Pre-routed cables	 Intel® Server Board S3200SHVL Intel® Server Chassis with 350-watt power supply System fan and cooling blowers with duct Intel® 1U heatsink Slim-line DVD-ROM bay Basic rail kit Pre-routed cables 	 Intel* Server Board S3200SHVL Intel* Server Chassis with 350-watt power supply System cooling blowers with duct Intel* 1U heatsink Slim-line DVD-ROM bay Basic rail kit Pre-routed cables
Number of Processors Supported	2	1	1
Processor Support ²	Intel® Xeon® 3200 and 3000 series, Intel® Core™2 Duo, Intel® Core™2 Quad, Intel® Core™2 Extreme Dual-Core, and Intel® Core™2 Extreme Quad-Core processors	Intel® Xeon® 3000 and 3200 series, Quad-Core Intel® Xeon® 3300 series, and Dual-Core Intel® Xeon® 3100 series processors	Intel® Xeon® 3000 and 3200 series, Quad-Core Intel® Xeon® 3300 series, and Dual-Core Intel® 3100 series processors
System Bus Speed	1333 MHz⁵ / 1066 MHz / 800 MHz	1333 MHz ⁵ / 1066 MHz / 800 MHz	1333 MHz ⁵ / 1066 MHz / 800 MHz
Chipset	Intel® X38 Express Chipset	Intel® 3200 Chipset	Intel® 3200 Chipset
PCI Buses	1	6	6
Total Slots	1	1	1
Slot Types	1 x PCI Express 2.0 x16 (2nd Gen. PCIe)	1 x PCI Express* x8	1 x PCI Express* x8
Memory Capacity	4 x DIMM slots for DDR2 667/800 MHz Unbuffered ECC/non-ECC DIMMs <i>(8 GB Max)</i>	4 x DIMM slots for DDR2 667/800 MHz Unbuffered ECC/non-ECC DIMMs (8 GB Max)	4 x DIMM slots for DDR2 667/800 MHz Unbuffered ECC/non-ECC DIMMs <i>(8 GB Max)</i>
Integrated SCSI	No	No	No
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ServerEngines* iBMC	ServerEngines* iBMC	ServerEngines* iBMC
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel* Server Essentials 2.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0
Intel® RAID Controller Compatibility³	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel® Embedded RAID Technology and compatible with Intel® RAID Controllers	Includes Intel* Embedded RAID Technology and compatible with Intel* RAID Controllers
Form Factor	1U short depth rack	1U rack	1U rack
Drive Bays	2 x fixed 2.5" SATA (3.0 Gb/s) HDDs	2 x fixed 3.5" SATA <i>(3.0 Gb/s)</i> HDDs 1 x fixed slim-line DVD-ROM	3 x hot-swap 3.5" SATA <i>(3.0 Gb/s)</i> HDDs 1 x fixed slim-line DVD-ROM
System Cooling	2 x fixed cooling blowers with ducts 2 x system fan	2 x fixed cooling blowers with duct 1 x system fan	2 x fixed cooling blowers with duct
Power Supply	600-watt high-efficiency power supply	350-watt PFC power supply	350-watt non-redundant
Dimensions (H x W x D)	1.70" (43mm) x 16.9" (430mm) x 20.0" (508mm)	1.70" (43mm) x 16.9" (430mm) x 20.0" (508mm)	1.70" (43mm) x 16.92" (430mm) x 25.51" (648mm)





System	Intel® 4-Processor Server System S7000FC4UR	Intel* 4-Processor Server System S7000FC4UR
	Maximum performance, reliability, and scalability	Maximum performance, reliability, and scalability
Order Code ¹	SFC4UR (Value SKU)	SFC4URE (Enterprise SKU)
Components Included	One Intel® 4-Processor Server System S7000FC4UR Support for four SATA 2.5" disk drives with integrated RAID One 1570-watt power supply One 8-DIMM memory board (system supports 4 memory boards for a total of 32 DIMM slots) Four hot-swap and redundant fans (front) Two hot-swap fans (rear) Standard control panel Pre-routed cables	 One Intel® 4-Processor Server System S7000FC4UR Support for eight SAS/SATA 2.5" disk drives with integrated RAID Two Hot-swap and redundant 1570-watt power supplies One 8-DIMM memory board (system supports 4 memory boards for a total of 32 DIMM slots) Eight hot-swap and redundant fans (four front, four rear) One slimline CD/DVD-ROM I/O expansion module that provides additional dual Gb Ethernet connections Standard control panel Pre-routed cables
Number of Processors Supported	4	4
Processor Support ²	Quad-Core Intel® Xeon® 7300 series or Dual-Core Intel® Xeon® 7200 series processors	Quad-Core Intel® Xeon® 7300 series or Dual-Core Intel® Xeon® 7200 series processors
System Bus Speed	1333 MHz ⁵ / 1066 MHz	1333 MHz ⁵ / 1066 MHz
Chipset	Intel® 7300 Chipset	Intel® 7300 Chipset
PCI Buses	6	6
Total Slots	7	7
Slot Types	4 x PCI Express* x8 (two hot-plug) 3 x PCI Express x4	4 x PCI Express* x8 (two hot-plug) 3 x PCI Express x4
Memory Capacity	256 GB ECC Fully Buffered DDR2 (via 32 DIMM slots and requires accessory BFCMEM)	256 GB ECC Fully Buffered DDR2 (via 32 DIMM slots and requires accessory BFCMEM)
Integrated SCSI	No	SAS/SATA riser module with Intel® Integrated Server RAID module.
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	4 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI ES1000* graphics controller	ATI ES1000* graphics controller
Server Management Support	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 2.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)
Intel® RAID Controller Compatibility (Order Code)³	Embedded RAID 0 and 1 Optional SAS/SATA riser module with Intel* Integrated Server RAID module (AFCSASRISER) Optional Intel* Integrated RAID activation key with HW RAID support for 0, 1, 5, 6, 10, 50, and 60 (AXXRAKSAS2) Optional Intel* RAID Smart Battery (AXXRSBBU4)	Embedded RAID 0, 1, and 1E Optional Intel Integrated RAID activation key with HW RAID support for 0, 1, 5, 6, 10, 50, and 60 (AXXRAKSAS2) Optional Intel* RAID Smart Battery (AXXRSBBU4)
Form Factor	4U Rack	4U Rack
Drive Bays	Up to 4 x hot-swap 2.5" SATA 1 x 5.25"peripheral bay (empty) Optional slimline CD/DVD-EOM (AFCDVD)	Up to 8 x hot-swap 2.5" SAS/SATA 1 x 5.25"peripheral bay <i>(empty)</i> Slimline CD/DVD-EOM
System Cooling	2 x hot-swap rear fans (full redundancy requires FFC4UBKFAN) 2 x hot-swap and redundant front fans	4 x hot-swap and redundant fans 2 x hot-swap and redundant front fans
Power Supply	Hot-swap 1570-watt , 1+1, power supply (full redundancy requires AFC4UPWR)	Hot-swap and redundant 1570-watt, 1+1 power supply
Dimensions (H x W x D)	6.8" (173mm) x 17.6" (447mm) x 27.8" (706mm)	6.8" (173mm) x 17.6" (447mm) x 27.8" (706mm)
	North American power cord included in order codes ending in NA, power cord not included in all other order codes. Refer to http://support.intel.com/support/motherboards/server for up-to-date details on processors supported	All products and dates specified are preliminary based on current expectations and are subject to change without notice. Availability in different channels may vary.

Refer to http://support.intel.com/support/motherboards/server for up-to-date details on processors supported

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³ Refer to http://support.intel.com/support/motherboards/server/compat_matrix.htm for up-to-date details on RAID controllers supported by each server system.

^{4 1600} MHz support may require updates that may not be available at launch.

⁵ 1333 MHz support may require updates that may not be available at launch.



INTEL® SERVER ADAPTERS

CONNECTIVITY FOR COPPER NETWORKS







Product Code-Singles
Product Code –Five Packs
Connector(s)
End-Brackets
Ethernet Controller(s)
Bus Width and Type

	Intel* 10 Gigabit AT Server Adapter	Intel* 10 Gigabit CX4 Dual Port Server Adapter	Intel* 10 Gigabit AF DA Dual Port Server Adapter
S	EXPX9501AT	EXPX9502CX4	E10G42AFDA
S	N/A	N/A	N/A
;)	1 RJ-45	2 CX4	2 SFP+ Direct Attach Copper
S	Low-profile and full-height	Low-profile and full-height	Low-profile and full-height
;)	Intel® 82598EB	Intel® 82598EB	Intel® 82598EB
е	PCI Express* 2.0 (2.5 GT/s) x8	PCI Express* 2.0 (2.5 GT/s) x8	PCI Express* 2.0 (2.5 GT/s) x8

10/100/1000 Mb/s-OVER-COPPER MULTI-PORT









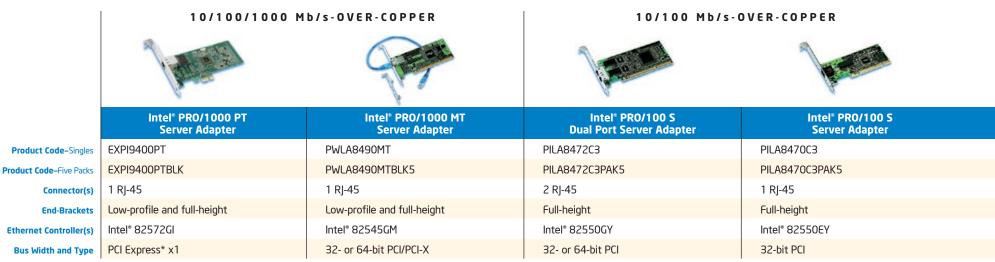
Product Code-Singles
Product Code-Five Packs
Connector(s)
End-Brackets
Ethernet Controller(s)
Bus Width and Type

	Intel* PRO/1000 PT Quad Port LP Server Adapter	Intel® PRO/1000 GT Quad Port Server Adapter	Intel* PRO/1000 PT Dual Port Server Adapter	Intel* PRO/1000 MT Dual Port Server Adapter
S	EXPI9404PTL	PWLA8494GT	EXPI9402PT	PWLA8492MT
S	EXPI9404PTLBLK	PWLA8494GTBLK5	EXPI9402PTBLK	PWLA8492MTBLK5
;)	4 RJ-45	4 RJ-45	2 RJ-45	2 RJ-45
S	Low-profile and full-height	Full-height	Low-profile and full-height	Low-profile and full-height
;)	Intel® 82571GB	Intel® 82546GB	Intel® 82571GB	Intel® 82546GB
е	PCI Express* x4	64-bit PCI/PCI-X	PCI Express* x4	32- or 64-bit PCI/PCI-X

Help improve a server's reliability, availability, and scalability by adding an Intel® multi-port adapter.

For more information, visit the Intel Web site at: www.intel.com/network/connectivity/index.htm

CONNECTIVITY FOR COPPER NETWORKS



10 GIGABIT-OVER-FIBER SINGLE PORT

CONNECTIVITY FOR FIBER NETWORKS

	Tail and	The state of the s		
	Intel® 10 Gigabit XF SR Server Adapter	Intel* 10 Gigabit XF LR Server Adapter	Intel* PRO/10GbE SR Server Adapter	Intel® PRO/10GbE LR Server Adapter
Product Code-Singles	EXPX9501AFXSR	EXPX9501AFXLR	PXLA8591SR	PXLA8591LR
Product Code–Five Packs	N/A	N/A	N/A	N/A
Connector(s)	1 LC	1 SC	1 LC	1 SC
Fiber Optic Cabling	MMF 62.5/50µm up to 300m	SMF up to 10km	MMF 62.5/50µm up to 300m	SMF up to 10km
End-Brackets	Low-profile and full-height	Low-profile and full-height	Full-height	Full-height
Ethernet Controller(s)	Intel® 82598EB	Intel® 82598EB	Intel® 82597EX	Intel® 82597EX
Bus Width and Type	PCI Express* 2.0 (25 GT/s) x8	PCI Express* 2.0 (2.5 GT/s) x8	64-bit PCI/PCI-X	64-bit PCI-X

CONNECTIVITY FOR FIBER NETWORKS

10 GIGABIT-OVER-FIBER MULTI-PORT





GIGABIT-OVER-FIBER MULTI-PORT





	Intel* 10 Gigabit XF SR Dual Port Server Adapter	Intel® PRO/1000 PF Quad Port Server Adapter	Intel® PRO/1000 PF Dual Port Server Adapter	Intel® PRO/1000 MF Dual Port Server Adapter
Product Code-Singles	EXPX9502AFXSR	EXPI9404PF	EXPI9402PF	PWLA8492MF
Product Code –Five Packs	N/A	EXPI9404PFBLK	EXPI9402PFBLK	PWLA8492MFBLK5
Connector(s)	2 LC	4 LC	2 LC	2 LC
Fiber Optic Cabling	MMF 62.5/50µm up to 300m	MMF 62.5/50µm up to 275m	MMF 62.5/50µm up to 275m	MMF 62.5/50µm up to 275m
End-Brackets	Low-profile and full-height	Full-height	Low-profile and full-height	Low-profile and full-height
Ethernet Controller(s)	Intel® 82598EB	Intel® 82571GB	Intel® 82571GB	Intel® 82546GB
Bus Width and Type	PCI Express* 2.0 (2.5 GT/s) x8	PCI Express* x4	PCI Express* x4	64-bit PCI/PCI-X

GIGABIT-OVER-FIBER SINGLE PORT







	Intel* PRO/1000 PF Server Adapter	Intel® PRO/1000 MF Server Adapter	Intel® PRO/1000 MF Server Adapter (LX)
Product Code-Singles	EXPI9400PF	PWLA8490MF	PWLA8490LX
Product Code –Five Packs	EXPI9400PFBLK	PWLA8490MFBLK5	PWLA8490LXBLK5
Connector(s)	1 LC	1 LC	1 LC
Fiber Optic Cabling	MMF 62.5/50µm up to 275m	MMF 62.5/50μm up to 275m	SMF 9µm up to 10km, MMF 62.5/50µm up to 550m
End-Brackets	Full-height	Low-profile and full-height	Low-profile and full-height
Ethernet Controller(s)	Intel® 82572GI	Intel® 82545GM	Intel® 82545GM
Bus Width and Type	PCI Express* x4	32- or 64-bit PCI/PCI-X	32- or 64-bit PCI/PCI-X

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^{*}Other names and brands may be claimed as the property of others.



INTEL® RAID CONTROLLERS









Controller	Intel® RAID Controller SRCSASPH16I	Intel® RAID Controller SRCSASJV	Intel® RAID Controller SRCSASBB8I	Intel® RAID Controller SRCSASRB
	A full-featured sixteen-port SAS/SATA RAID controller for high-disk count solutions	Configurable internal/external eight-port SAS/SATA RAID for high-performance flexible solutions	Eight-port internal SAS/SATA RAID in a low-profile, MD2-compliant form factor for mainstream to performance solutions	Eight-port internal SAS/SATA RAID for mainstream solutions
Order Code	SRCSASPH16I AXXRSBBU3 (Optional Intel® RAID Smart Battery)	SRCSASJV AXXRPCM3 (Optional Intel® Portable Cache Module) AXXRSBBU3 (Optional Intel® RAID Smart Battery)	SRCSASBB8I AXXRSBBU6 (Optional Intel® RAID Smart Battery)	SRCSASRB AXXRSBBU4 (Optional Intel® RAID Smart Battery)
Processor Support	Intel® IOP333 I/O Processor 500 MHz	N/A	N/A	N/A
RAID On Chip	N/A	LSI 1078	LSI 1078	LSI 1078
Memory	Embedded 256 MB ECC SDRAM	Ships with 512 MB DIMM (Supports up to 1 GB mini-DIMM ECC DDR2 667 MHz SDRAM)	Embedded 256 MB ECC SDRAM	Embedded 256 MB ECC SDRAM
PCI Bus	PCI Express* x8	PCI Express* x8	PCI Express* x8	PCI Express* x4
Channels	16 internal SAS/SATA ports supporting point-to-point 3.0 Gb/s data-transfer rates	8 SAS/SATA ports configurable in groups of 4 for up to 8 internal or 8 external ports supporting point-to-point 3.0 Gb/s data-transfer rates	8 internal SAS/SATA ports supporting point-to-point 3.0 Gb/s data-transfer rates	8 internal SAS/SATA ports supporting point-to-point 3.0 Gb/s data-transfer rates
Form Factor	Full-height, 6.6" length	Low-profile, 8.25" length	Low-profile, 6.6" length	Low-profile, 7.75" length
RAID Levels	0, 1, 5, 6, 10, 50, and 60	0, 1, 5, 6, 10, 50, and 60	0, 1, 5, 6, 10, 50, and 60	0, 1, 5, 6, 10, 50, and 60
Battery Backup	Yes (Optional - purchased separately)	Yes (Optional – purchased separately)	Yes (Optional – purchased separately)	Yes (Optional - purchased separately)
Availability	Now	Now	Now	Now











Controller	Intel® RAID Controller SRCSASLS4I	Intel® RAID Controller SRCSATAWB	Intel® RAID Controller SASMF8I	Intel® RAID Controller SRCSAS18E	Intel® RAID Controller SRCSAS144E
	Four-port internal SAS/SATA RAID in a low-profile, MD2- compliant form factor for entry-level to mainstream solutions	Eight-port Serial ATA RAID supporting up to 16 HDD through an expander backplane for entry-level to mainstream solutions	Inexpensive SAS card with host-based RAID capability for entry-level solutions	Full-featured, eight-port SAS/ SATA RAID for high-performance and reliability solutions	Four-port internal and four-port external SAS/SATA RAID for mainstream solutions requiring external connectivity
Order Code	SRCSASLS8I AXXRSBBU6 (Optional Intel* RAID Smart Battery)	SRCSATAWB AXXRSBBU4 (Optional Intel* RAID Smart Battery)	SASMF8I	SRCSAS18E AXXRPCM2 (Optional Intel* Portable Cache Module—256 MB DIMM with Battery Backup)	SRCSAS144E AXXRSBBU3 (Optional Intel® RAID Smart Battery)
Processor Support	N/A	N/A	N/A	Intel® IOP333 I/O Processor 500 MHz	Intel* IOP333 I/O Processor 500 MHz
RAID On Chip	LSI 1078	LSI 1078	N/A	N/A	N/A
Memory	Embedded 128 MB ECC SDRAM	Embedded 128 MB ECC SDRAM	N/A	Ships with 256 MB DIMM (Supports up to 512 MB ECC DDR2 400 MHz SDRAM)	Embedded 128 MB
PCI Bus	PCI Express* x8	PCI Express* x4	PCI Express* x4	PCI Express* x8	PCI Express* x4
Channels	4 internal SAS/SATA ports supporting point-to-point 3.0 Gb/s data-transfer rates	8 internal Serial ATA ports with 3.0 Gb/s data-transfer rates	8 internal SAS/SATA ports supporting point-to-point 3.0 Gb/s data-transfer rates	2 SFF8484 4-port connectors with cables to 8 internal SAS/SATA devices including expanders at 3.0 Gb/s data-transfer rates	4 internal and 4 external ports supporting point-to-point 3.0 Gb/s data-transfer rates
Form Factor	Low-profile, 6.6" length	Low-profile, 7.75" length	Low-profile, 6.6" length	Full-height, 3/4 length	Low-profile, 3/4 length
RAID Levels	0, 1, 5, 6, 10, 50, and 60	0, 1, 5, 6, 10, 50, and 60	0, 1, 5, and 10	0, 1, 5, 10, and 50	0, 1, 5, 10, and 50
Battery Backup	Yes (Optional – purchased separately)	Yes (Optional – purchased separately)	No	Yes (Optional – purchased separately)	Yes (Optional – purchased separately)
Availability	Now	Now	Now	Now	Now

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^{*}Other names and brands may be claimed as the property of others.

Agent-less Management



INTEL® MANAGEMENT MODULES





ment Module– d Edition	Intel® Remote Management Module 2
ers with a cost-effective d video/GUI redirection agent-less embedded	Have remote, secure access to full-screen KVM features together with hardware-health monitoring, remote CD or USB access, and complete power control without ever having to visit the server.
	AXXRMM2
520BD2, SE7520AF2,	Intel® Server Boards S5000PAL, S5000XAL, S5000PSL, S5000XSL, and S5400SF Intel® Server Systems SR1500AL, SR1550AL, SR2500ALBRP, SR2500ALLX, SR1550ALSAS, SR1500ALSAS, S7000FC4UR, SR1560SF, and SR1560SFHS
X	X
	X
	X
X	Support built into system firmware
nanced ²	IPMI 2.0 SOL support built into system firmware
pedded ³	Support built into system firmware
X	
	X
	X
	X
	X

Feature Description	Intel® Management Module– Professional Edition	Intel® Management Module– Advanced Edition	Intel® Remote Management Module 2
Positioning	Maintain high-availability servers over serial, modem, or LAN.	Take remote control of servers with a cost-effective solution, including enhanced video/GUI redirection over Internet protocols and agent-less embedded management services.	Have remote, secure access to full-screen KVM features together with hardware-health monitoring, remote CD or USB access, and complete power control without ever having to visit the server.
Order Code	AXXIMMPRO	AXXIMMADV	AXXRMM2
Boards and Systems Support ¹	Intel® Server Boards SE7520BD2, SE7520AF2, and SE7520JR2	Intel® Server Boards SE7520BD2, SE7520AF2, and SE7520JR2	Intel® Server Boards S5000PAL, S5000XAL, S5000PSL, S5000XSL, and S5400SF Intel® Server Systems SR1500AL, SR1550AL, SR2500ALBRP, SR2500ALLX, SR1550ALSAS, SR1500ALSAS, S7000FC4UR, SR1560SF, and SR1560SFHS
Remote Server Restart	X	X	X
OEM Customization			X
USB Media Redirection			X
Hardware Sensor Monitoring	X	X	Support built into system firmware
Text Console Redirection (Serial over LAN)	X IPMI 2.0	X Enhanced ²	IPMI 2.0 SOL support built into system firmware
SNMP	X In-band agent	X Embedded³	Support built into system firmware
Embedded Telnet server (Proxy-less CLI Operations)		X	
Soft Keyboard via KVM (Multiple Language Support)			X
LDAP, SSH, RADIUS, SSL support			X
SMASH CLP support			X
WS-MAN			X
Embedded video/GUI (KVM) redirection		X with Intel® ARSC	X
Embedded Web Server		X	X
Dedicated Server Management NIC		X	X
			4

 $^{^1}$ For the latest server board support please visit http://support.intel.com/support/motherboards/server 2 Enhanced reliability (TCP based) 3 Embedded features work in any OS environment

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INTEL® STORAGE SYSTEMS





System	Intel® Entry Storage System SS4200-E	Intel® Storage System SSR212MC2
	An easy-to-use, affordable NAS appliance with simple software to help you easily manage your ever-expanding data	High-density, dual-core-based 2U storage server platform that can be coupled with one of a number of different industry software solutions to create a SAN, NAS, or DAS appliance
Order Code	SS4200E	SSR212MC2-R (with optional RAID controller)
Processor Support	Intel® Celeron® 420 Processor	Multi-Core Intel® Xeon® Processor
Number of Processors Supported	1	1 or 2 (5100 or E5300 series CPUs; 5200 and E5400 series CPUs on BR skus)
System Bus Speed	800 MHz	1066 or 1333 MHz
Chipset	Intel® D945GZ Chipset	Intel® S5000P Chipset
Independent PCI Buses	N/A	5
Total Slots	N/A	5 (four available) (RAID sku) 5 (non-RAID sku)
Slot Types	N/A	One PCI Express* x8, two PCI Express x4, one PCI-X 133 MHz (RAID sku) Two PCI Express x8, two PCI Express x4, one PCI-X 133/100 MHz (non-RAID sku)
Memory Capacity	512 MB	32 GB DDR2 533/667, FBDIMM, Reg ECC
Integrated LAN	1 x Gigabit Ethernet connections	2 x Gigabit Ethernet connections
Integrated Fibre Channel	N/A	N/A
Integrated Graphics	N/A	ATI ES1000* with 16 MB memory
Server Management Support	N/A	Intel® Server Management 8
RAID Support	Supports RAID 1, 5, and 10	Supports RAID 0, 1, 5, 10, and 50
Form Factor	Tabletop	2U Rack mount
Drive Interfaces	4 x 3.5" tool-less non-hot-swap SATA II	12 x 3.5" hot-swap SAS or SATA II
Power Supply	250-watt continuous power supply	850-watt, dual-line cord 1+1 PFC (fully redundant configuration requires second power module, order code AMC850WPS)
Software	Fully integrated NAS management software from EMC* with EMC Retrospect* Client Backup and Recovery application Other certified NAS software options available	Device driver software, enclosure monitoring software

For more information, visit the Intel Web site at: www.intel.com/go/storagesystems

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INTEL® MODULAR SERVER PRODUCTS



Server	Intel® Modular Server Compute Module MFS5000SI
	High-performance, power- and heat-efficient Intel® 64- bit-capable, multi-core server
Order Code	MFS5000SI
Intel® Server Chassis Support	Intel® Modular Server System MFSYS25 Intel® Modular Server System MFSYS35
Processor Support	Multi-Core Intel® Xeon® processor
Number of Processors Supported	2
System Bus Speed	1333 MHz or 1066 MHz
Chipset	Intel® 5000P Server Chipset
Independent PCI Buses	2
Total Slots	1 Mezzanine Expansion Connector
Onboard HDD	None
Memory Capacity	32 GB FBDIMMS (8 DIMMS)
Integrated SAS HBA	Connectivity to shared storage provided via onboard LSI* 1064e controller
Integrated LAN	2x Gigabit Ethernet (4x with optional gigabit mezzanine card AXXGBIOMEZ)
Integrated Graphics	ATI* ES1000 16 MB Video Controller
Integrated Management	Remote management (KVM over IP) provided via onboard management controller
H/W Management	Easy-to-use h/w deployment and remote management provided by Intel® Modular Control software integrated with Intel® Modular Server Management Module
Application Management	Provided by Intel® System Management Software 2.0
Front Connectors	2 x USB, 1 DB15 video



Chassis	Intel® Modular Server System MFSYS25/MFSYS35
	One system that integrates storage, compute, and networking to simplify the demands of your business
Chassis Order Code	MFSYS25 / MFSYS35
Spares Kit Order Code	See support.intel.com for a complete configuration guide
Form Factor	6U (can be deployed in a rack or pedestal kit)
Intel® Server Board Support	Intel® Modular Server Compute Module MFS5000SI
Server Slots	6
Shared Storage HDD Bay	Supports up to 14 x 2.5" drives or 6 x 3.5" drives (MFSYS35)
Management Module Bay	1 integrated Intel® Modular Server Management Module
Storage Module Bays	1 integrated Intel® Storage Controller, option for redundant storage module
IO Module Bays	1 integrated Intel® Gigabit Ethernet Switch, option for redundant Ethernet switch
System Cooling	Includes three high-flow system fans
Power Supply	1000-watt, N+1 PFC 100V-240 V-capable, 2 included
Redundant Power Capable	Yes (fully redundant system configuration requires two additional power modules AXXPSU)
Tool-less Features	Complete tool-less serviceability
Dimensions (H x W x D)	10.3" x 17.5" x 28.4"
Weight	187 lbs (84.8 kg) fully configured
Ethernet Switch Module	10 External 10/100/1000 Mb/s ports, 12 Internal 1 Gb/s ports, Layer 2+, 10 Gb/s switch inter-links, Integrated management
Storage Controller Module	SAS 3 Gb-based SAN storage supporting RAID 0, 1, 1E, 5, 6, 10, 50, and 60; external x4 mini SAS port expansion for integration with external SAS tape or RAID
Chassis Management Module	Web management GUI with remote KVM support, virtual presence, and virtualized access storage management

For more information, visit the Intel Web site at: $\begin{tabular}{ll} www.intel.com/go/mft \\ \end{tabular}$

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Intel® Enabled Server Acceleration Alliance (Intel® ESAA)

Enabled Server Acceleration Alliance

Intel® FSAA member benefits

Intel® ESAA provides members with lower cost, higher quality solutions, enabling them to compete on a global scale:

- Speed time to market with pre-tested solution recipes that provide step-by-step configuration instructions
- Reduce engineering costs with pre-validated and proven technologies
- Get access to new markets and services with pass-through certification from companies such as VMware*, RedHat*, Novell*, Oracle*, Symantec*, and more
- Align with Intel's world-class server technology leadership and pre- and post-sales support infrastructure



Gain a competitive edge

Intel ESAA is free for resellers¹ to join and provides comprehensive resources to sell complete solutions instead of just hardware components. Helping you build customer loyalty by meeting more complex requirements rapidly, Intel ESAA provides instant access to pre-verified solution stacks from vendors around the globe. These solutions give you insight into newly introduced hardware and software, getting you to market early with leading-edge technologies so you can stay ahead of the competitive curve.

Your recipe for success

Getting components from different vendors to work seamlessly in a single, reliable solution is a challenge. And with so many vendors in the marketplace, validation has become critical to the success of OEMs, resellers, and distributors. That's where Intel ESAA comes in, giving you access to hardware and software solution recipes that provide pre-validated configurations and development specifications.

This helps you:

- Decrease solution and design costs
- Simplify pre-sales support
- Broker large-scale deals

Take your business to the next level

Finding ways to compete with large companies that have seemingly unlimited resources is difficult for any company—especially small ones. Server solution sales can help expand revenue channels and increase sales. Your customers want solutions that feature the latest technologies—without deployment or troubleshooting headaches. While the pitfalls to building successful solutions are plenty, the potential rewards offer exceptional future growth.

Deliver reliable solutions ahead of the curve

Intel® ESAA helps you harness your potential while removing obstacles in your path to success. The collaborative community of Intel ESAA can help you connect with industry-leading companies that reduce barriers to validation, expand your market opportunities, and accelerate the delivery of trusted solutions to your end customers.

Ongoing world-class support

As a worldwide technology community, Intel ESAA encourages open communication facilitated by the non-profit TSANet* organization to promote a healthy and thriving business ecosystem. This collaboration leads to the reliable and seamless integration of Intel Server Products with solutions offered by our members. And all Intel ESAA members benefit from an improved server ecosystem where collaboration streamlines validation.

As the Intel ESAA community continues to grow, Intel plans to expand opportunities and new markets for members and further reduce barriers to certification. By giving you tools to accelerate the delivery of high-quality server solutions, you can reach new customers and achieve even greater competitive success.

For more information, visit the Intel Web site at: www.intel.com/go/esaa



¹ Membership to the Technical Support Alliance Network (TSANet) is required; there is no fee for reseller members but there is a US \$1,500 fee for IxV members. See www.tsanet.org/for more information.

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Intel® Desktop Boards

Intel® Desktop Adapters

Intel® Graphics Product Matrix

Intel® Mobile Processors

Intel® PRO/Wireless Network Connections

Intel® Server/Workstation Processors

Intel® Server Boards

Intel® Server Essentials

Intel® Server Chassis

Intel® Server Systems

Intel® Server Adapters

Intel® RAID Controllers

Intel® Management Modules

Intel® Storage Systems

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