

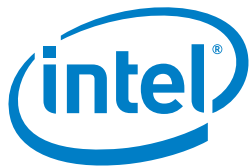
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Intel® Product Quick Reference Matrix Q1 2009

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Technology Update](#)
[Intel® Modular Server Sales Guide](#)
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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:

Clearly, 2009 will be all about adapting to monumental market changes: restating the case to your business customers for investing in new Intel® technology-based solutions that can improve their productivity—reducing energy costs and scaling easily to shifting business conditions. The information you will see in this Q1 matrix will tell you about the products and resources that can help you grow your business, even in these challenging times.

Sell up to 45nm Processor Performance

Intel continues to roll out industry-leading performance with its new dynamically scalable microarchitecture, featuring hafnium-based Intel® 45nm Hi-k metal gate silicon technology for server, workstation, PC, and mobile users.

Whether you're casually checking e-mail and surfing the Web or multitasking compute-intensive applications such as HD video encoding, you want a processor that enables maximum PC performance. With the Intel® Core™ i7 processor, you'll get just that. An unprecedented four-core, eight-thread design with Intel® Hyper-Threading technology¹ ensures incredible performance, regardless of your computing needs.

Small and Simple Wins the Race

Enter the fastest-growing small form factor market segment by offering innovative standards-based designs featuring mini-ITX desktop boards.

With numerous chassis vendors and boards ranging from value to mainstream, the mini-ITX form factor provides the flexibility to offer purpose-built solutions for basic computing or fully featured systems for advanced usage models. The mini-ITX form factor allows you to build space-saving, green, and energy-efficient systems for home or office use. For more information, visit www.intel.com/go/miniITX.

Intel® ESAA Program Benefits Automatically Extended to Channel Partners

To help you deliver more solution value to your customers, the Intel® Enabled Server Acceleration Alliance (Intel® ESAA) provides access to hundreds of pre-tested solution recipes for use exclusively with Intel® server and workstation boards and systems. Access to these cost-saving solution configuration guides is now a standard benefit for channel members.

Now More than Ever, Your Channel Benefits Matter

Breakthrough products will carry you only so far—Intel understands that you need the total business support that only a world-class channel membership program can offer. We encourage you to make full use of all your benefits—face-to-face and online training opportunities, in-store marketing and sales support, Intel® Flex+ rewards, special promotion packages, and other advantages that sharpen your technical knowledge, save money, strengthen supply chains, and improve your overall ability to thrive even in volatile markets.

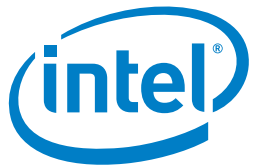
We know that this will be a challenging year for the reseller community, as you make your case to customers for maintaining a competitive edge by investing in Intel technology-based solutions. Please keep us informed through your board of advisors and field sales representatives so that we can continue delivering the products, programs, and professional support that will help you thrive in 2009.

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

¹ Intel® Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support HT Technology, see www.intel.com/info/hyperthreading.

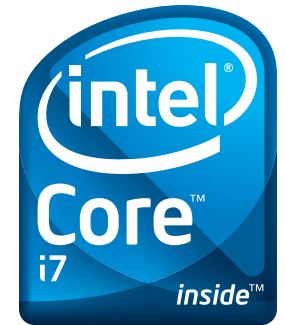
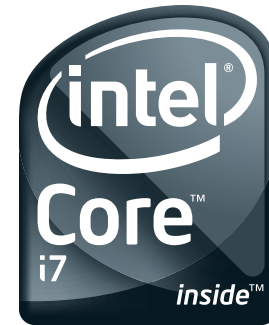
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Part Number: 317428-006US January 2009





Intel® Core™ i7 Processor:

The highest performing desktop processor on the planet for extreme gamers and demanding enthusiasts.¹



Wield the Ultimate Gaming Weapon

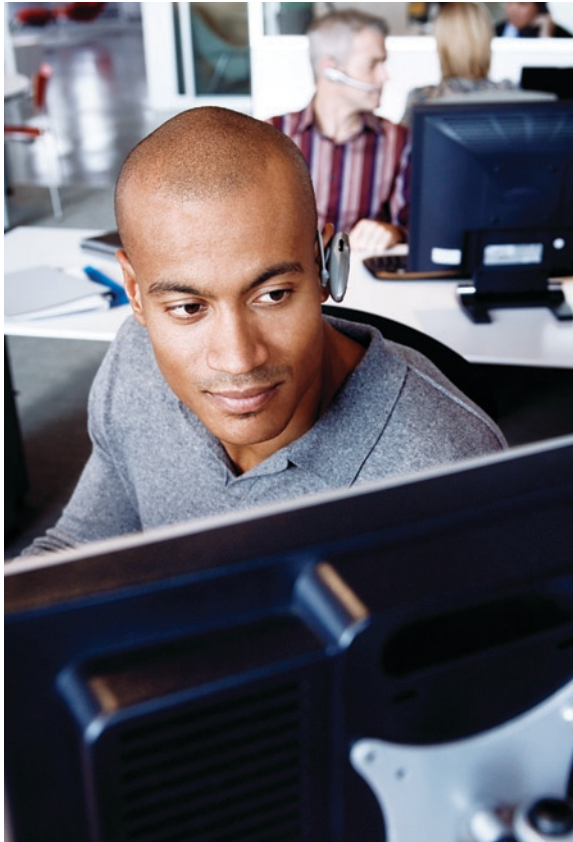
Conquer the world of extreme gaming with the fastest desktop processor on the planet: the Intel® Core™ i7 processor Extreme Edition.¹ With faster, intelligent multi-core technology that dynamically accelerates performance to match your workload, it delivers an incredible breakthrough in gaming performance.

Breakaway Performance for Digital Media Creation

The Intel Core i7 processor Extreme Edition takes digital media creation to a whole new level. Enjoy up to 79 percent faster video encoding and up to 46 percent faster image rendering, plus incredible performance for photo retouching and photo editing.^{2,3}

What are the Processor Key Differences?

	Intel® Core™ i7-965	Intel® Core™2 Extreme QX9770	Intel® Core™2 Extreme QX9650
Number of Simultaneous Threads	8 (with Intel® Hyper-Threading Technology ³)	4	4
Processor Integrated Memory Controller	Yes	No	No
Intel® Turbo Boost Technology ⁴	Yes	No	No
Number of Memory Channels	3	2	2
Intel® Express Chipset	X58	X48	X48, X38, P45, P35
Socket	LGA1366	LGA775	LGA775



Gear up for Extreme Processing Power

Unique Intel® Turbo Boost Technology⁴ accelerates performance dynamically to match your workload and maximize speed for demanding applications. New performance-maximized memory access technologies work together to reduce latency and more than double memory bandwidth for faster memory access.⁶ Achieve up to 25 percent faster multitasking performance by handling multiple applications simultaneously so you experience less wait time.²

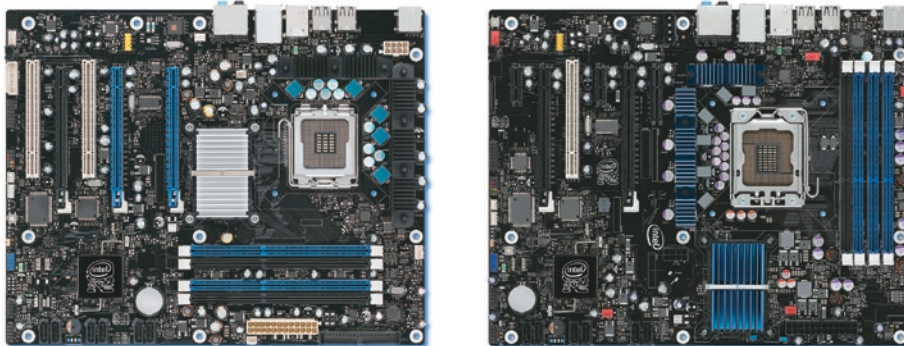
The Intel® Core™ i7 processor Extreme Edition offers unprecedented bandwidth and memory performance, including an integrated memory controller with 3 channels of DDR3, 2 DIMMs per channel, and up to 25.6 GB/s bandwidth for DDR3 1066 MHz.

Three Launch Frequencies Available

- Intel® Core™ i7-965 processor at 3.20 GHz (Extreme Edition)
- Intel® Core™ i7-940 processor at 2.93 GHz
- Intel® Core™ i7-920 processor at 2.66 GHz

Intel® Desktop Boards DX58SO and DX48BT2

Same ATX Form Factor!



What are the Feature Differences?

Intel® Desktop Board DX48BT2	Intel® Desktop Board DX58SO
Intel® Core™2 Extreme and Intel® Core™2 Quad Processors in the LGA775 Package	Intel® Core™ i7 Processors in the LGA1366 Package
Two channels DDR3 Memory	Three channels DDR3 Memory ⁷
Front Side Bus	Intel® QuickPath Interconnect
Memory Controller Hub via Chipset	Integrated Memory Controller

Mind-Blowing Platform Performance with the Intel® Desktop Board DX58SO and the Intel® Core™ i7 Processor

- Exceptional performance and scalability for extreme computing
- Intel® Hyper-Threading Technology⁵ delivers amazing eight-threaded performance—two threads per core
- Intel® Turbo Mode delivers an additional processing boost during peak demand
- Intel® HD Audio 7.1 Surround Sound with Dolby® Home Theater
- Six SATA ports and two eSATA with support for Intel® Matrix Storage Technology
- Twelve USB 2.0 ports (8 back ports, 4 ports via 2 internal headers)

Groundbreaking Bandwidth Speeds for Your Data

- Integrated Memory Controller with three channels of DDR3 1600 MHz offers memory performance of up to 32 GB/s
- Intel® X58 Express Chipset with Intel® QuickPath Interconnect (Intel® QPI) connects to the processor for 25.6 GB/s maximum peak bandwidth

Graphics Powerhouse

- All vendor single graphics card options are supported
- The Intel® Desktop Board DX58SO has two full-speed PCI Express* 2.0 x16 slots for maximum bandwidth for dual-card ATI* CrossFire*



Intel® Xeon® Processor 5500 and 3500 Series:

Introducing a new generation of intelligent
server and workstation processors.



Comparison with Previous-Generation Processors

	NEW! Intel® Xeon® Processor 5500 Series	NEW! Intel® Xeon® Processor 3500 Series	<i>Currently Shipping</i> Intel® Xeon® Processor 5400 Series
Maximum Processors per System	2	1	2
Number of Cores	Up to 4	4	4
Integrated Memory Controller	Yes	Yes	No
Interconnect / Bus	Intel® QuickPath Interconnect	Intel® QuickPath Interconnect	Front Side Bus
Memory Support	3 channels, DDR3	3 channels, DDR3	2 channels, FBDIMM
Intel® Turbo Boost Technology ⁴	Yes ⁸	Yes ⁸	No
Intel® Hyper-Threading Technology ⁵	Yes ⁸	Yes ⁸	No
Socket	LGA1366	LGA1366	LGA775
Process Technology	45nm	45nm	45nm
Boxed Heatsink	Sold Separately	Included	Included

Faster and Smarter

The next generation of server/workstation processors from Intel adapts to application behavior by automatically adjusting processing power to deliver maximum performance, scaling energy usage to the workload, and offering best-in-class virtualization—all while allowing manual configuration for greater IT control.

Intelligent Performance

The Intel® Xeon® processor 5500 and 3500 series, based on next-generation Intel® microarchitecture, deliver better performance and power efficiency by intelligently adapting to the application. Intel® Turbo Boost Technology⁴ enables an automatic increase in frequency when conditions allow. Intel® Hyper-Threading Technology⁵ increases performance for multi-threaded applications or multitasking scenarios. A three-channel integrated DDR3 memory controller and Intel® QuickPath Technology offer best-in-class system bandwidth and memory performance.

Automated Energy Efficiency

With Intel® Intelligent Power Technology and Integrated Power Gates, the Intel® Xeon® processor 5500 and 3500 series monitor the needs of currently running applications, adapt to deliver the performance needed, and automatically scale back individual cores to near-zero power when performance is not needed. The Intel Xeon processor 5500 and 3500 series can also lower energy costs by automatically putting processors and memory into the lowest available power states to meet the current workload needs while minimizing impact on performance.

Flexible Virtualization

Next-Generation Intel® Virtualization Technology allows the use of different generations of Intel Xeon processors within the same virtualization pool, delivering peak performance during high-use periods; improving flexibility for failover, load balancing, and disaster recovery; and enabling the reduction of energy cost during low-use periods.

Breakthrough Workstation Performance

In workstations, the Intel Xeon processor 5500 and 3500 series deliver the technology to move from an idea to a product faster than ever before.

Boxed Processor Change for Intel® Xeon® Processor 5500 Series

In order to offer more flexibility at time of purchase and reduce waste and cost for customers with other sources for heatsinks, the Intel Xeon processor 5500 series will not include a heat sink in the box. To support the 5500 series, the boxed Intel® Thermal Solution STS100 series will be available through the same distributors and offer the same three-year limited warranty as boxed processors.

The Intel Xeon processor 3500 series will include a heatsink for single-socket systems in the box. Visit www.intel.com/go/thermal for more details on boxed thermal solutions and compatibility with processors and chassis.



Intel® Server Boards

Supporting the New Intel® Xeon® Processor 5500 and 3500 Series



S5520UR	S5520HC	S5500HCV	S5500BC	S5520SC	MFS5520VI	S5500WB
Rack Optimized	Volume/ Performance Pedestal	Volume/ Value Pedestal	Entry Server	Workstation	Modular Server	Power Optimized Rack Mount
Intel® 5520 Chipset with ICH10R	Intel® 5520 Chipset with ICH10R	Intel® 5500 Chipset with ICH10R	Intel® 5500 Chipset with ICH10R	Intel® 5520 Chipset with ICH10R	Intel® 5520 Chipset with ICH10R	Intel® 5500 Chipset with ICH10R
SR1600, SR2600, SR2625, SR1625	SC5600 Family, SC5650 Family	SC5600 Family, SC5650 Family	SC5650 Family	SC5650WS, SC5600Base	MFSYS25, MFSYS35	Third Party
Supports 12 DDR3 Memory DIMM Slots through 6 Memory Channels	Supports 12 DDR3 Memory DIMM Slots through 6 Memory Channels	Supports 9 DDR3 Memory DIMM Slots through 6 Memory Channels	Supports 8 DDR3 Memory DIMM Slots through 4 Memory Channels	Supports 12 DDR3 Memory DIMM Slots through 6 Memory Channels	Supports 12 DDR3 Memory DIMM Slots through 6 Memory Channel	Supports 8 DDR3 Memory DIMM Slots through 6 Memory Channels

¹ Based on SPECint*_rate_base2006 scores. Results have been based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance. See www.intel.com/performance/desktop/extreme/index.htm for additional information.

² Performance based on PowerDirector* 7 test results, comparing the Intel® Core™ i7 processor Extreme Edition to the Intel® Core™2 Extreme processor QX9770. Actual performance may vary. See www.intel.com/performance/desktop/extreme/index.htm for more information.

³ Performance based on POV-Ray* v3.7 Beta test results, comparing the Intel® Core™ i7 processor Extreme Edition to the Intel® Core™2 Extreme processor QX9770. Actual performance may vary. See www.intel.com/performance/desktop/extreme/index.htm for more information.

⁴ Intel® Turbo Boost Technology requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost for more information.

⁵ Intel® Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support HT Technology, see www.intel.com/info/hyperthreading.

⁶ Performance measured based on SISoftware* Sandra*, comparing the Intel® Core™ i7 processor Extreme Edition to the Intel® Core™2 Extreme processor QX9770. Actual performance may vary. See www.intel.com/performance/desktop/extreme/index.htm for more information.

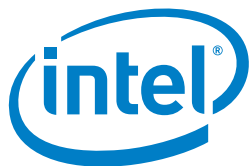
⁷ Memory control moves to the processor with additional channel of DDR3 added: Integrated Memory Controller (IMC) with three channels of DDR3, two DIMMs per channel; up to 32 GB/s memory bandwidth at DDR3 1333 MHz.

⁸ Varies by SKU.

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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
- **NEW!** Optional software upgrade feature (Intel® Shared LUN that allows HA clustering and advanced virtualization applications)

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

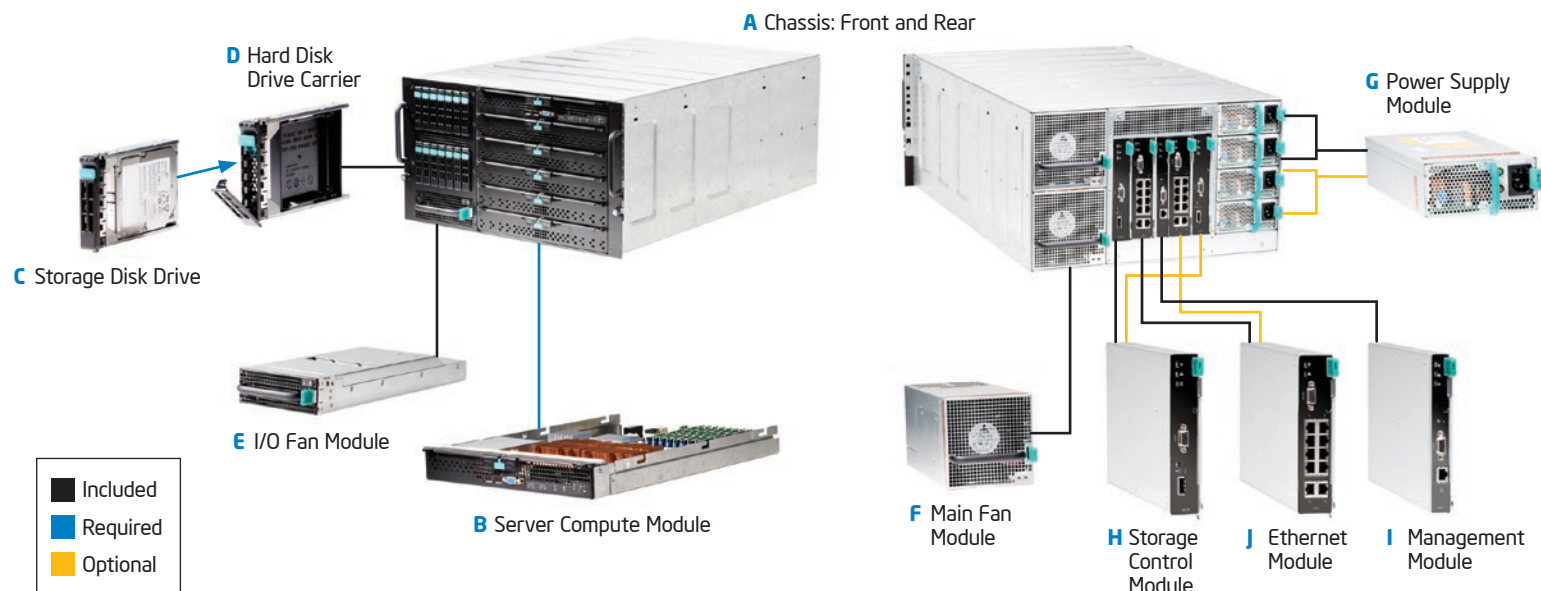
- Chassis power supplies can utilize 100–240 V power, eliminating special power requirements worldwide.

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

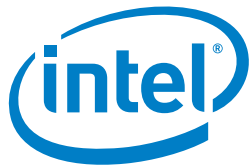
- (1 included, 1 optional)
- Up to 2 Ethernet Switch Modules
- Each module features 10/100/1000GbE full-duplex ports

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

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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's the best PC for business**
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/go/channelvpro
www.intel.com/go/vpro
msp.intel.com



Finding the Right Fit

One of the most costly aspects for small and midsize 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 easy-to-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 server-based 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 Software 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**
Intel System Management Software includes a custom installer that simplifies the installation of Microsoft System Center Essentials 2007 and the Intel-developed management packs.
 - Intel® Server Management Pack
 - 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 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® Xeon® processor-based server systems and PCs with 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, Intel® Core™2 Quad, or Intel® Core™2 Duo 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. This allows better energy savings, security, and overall manageability.

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.

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

Secure.

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, 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

Smart.

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

BENEFITS:

- 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 Essentials 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 Business Market	Mid-Market
	Small Network Edition	Standard Edition
MSRP	599.00 USD	\$1999.00 USD
Number of Servers Supported	Up to 5	Up to 30 ²
Number of Clients (PCs) Supported	15	Up to 500 ²
Client Access License (CAL)	\$100 USD/server and \$20 USD/client	\$100 USD/server and \$20 USD/client
Availability	Intel authorized dealers	Intel and Microsoft authorized dealers

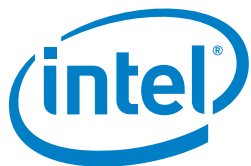
¹ Intel® Active Management Technology (Intel® AMT) requires the platform to have an Intel AMT-enabled chipset, network hardware, and software, as well as connection with a power source and a corporate network connection. Setup of Intel AMT requires configuration by the purchaser and may require scripting 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 Additional Client Access Licenses (CAL) may be required.

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 Inside, and Centrino are trademarks of Intel Corporation in the U.S. and other countries.

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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	INTEL® QPI (GT/s) ³ / MAX. BUS (MHz)	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® 7400 Series	4	Up to 6	2.67 GHz	50-130 W	1066 MHz	Up to 16 MB L3	Intel® 7300 Chipset
Efficient Performance Energy Efficient, Cost Effective TARGET USAGE: Optimized for General Purpose Servers (e-mail, Web, file, business applications) and IT infrastructure virtualization RECOMMENDED CONFIGURATION: 2 CPUs	Best	Intel® Xeon® 5500 Series	2	Up to 4	2.93 GHz	60-95 W	Up to 6.40 GT/s	Up to 8 MB Shared L3	Intel® 5520 Chipset
	Good	Intel® Xeon® 5400 Series	2	4	3.33 GHz	80-120 W	1333 MHz	12 MB L2	Intel® 5000P Chipset
Entry Cost Optimized TARGET USAGE: Small businesses < 100 employees, Basic needs (e-mail, network, file/print) RECOMMENDED CONFIGURATION: 1-2 CPUs	Best	Intel® Xeon® 5400 Series	2	4	3.33 GHz	80-120 W	1333 MHz	Up to 12 MB L2	Intel® 5000V or Intel® 5100 Chipset
		Intel® Xeon® 5200 Series	2	2	3.50 GHz	80 W	1333 MHz	Up to 6 MB L2	
	Better	Intel® Xeon® 3300 Series	1	4	3 GHz	95 W	1333 MHz	Up to 12 MB L2	Intel® 3200 Chipset
	Good	Intel® Xeon® 3100 Series	1	2	3.16 GHz	65 W	1333 MHz	6 MB L2	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	INTEL® QPI (GT/s) ³ / MAX. BUS (MHz)	CACHE	RECOMMENDED INTEL® CHIPSET
HPC Optimized for High-Performance Analytics TARGET USAGES: Bandwidth-intensive applications, High-Performance Clusters, and complex computation	Best	Intel® Xeon® 5500 Series	2	Up to 4	2.93 GHz	60–95 W	6.40 GT/s	8 MB Shared L3	Intel® 5520 Chipset
	Better	Intel® Xeon® 5400 Series	2	4	3.20 GHz	80–120 W	1600 MHz	12 MB L2	Intel® 5400 Chipset
	Low-cost HPC	Intel® Xeon® 3000 Series Low Voltage SKUs (L3xxx)	1	Up to 4	3 GHz	45–65 W	1333 MHz	Up to 12 MB L2	Intel® 3210 Chipset
Workstation Optimized for Complex Analysis/Visualization TARGET USAGES: Graphics rendering, multimedia content development, engineering applications (CAD/CAM), software development	Best	Intel® Xeon® 5500 Series	2	Up to 4	3.20 GHz	60–130 W	6.40 GT/s	8 MB Shared L3	Intel® 5520 Chipset
	Better	Intel® Xeon® 5400 Series	2	4	3.40 GHz	50–150 W	1600 MHz	12 MB L2	Intel® 5400 Chipset
	Good	Intel® Xeon® 3500 Series	1	4	3.20 GHz	130 W	6.40 GT/s	8 MB Shared L3	Intel® X58 Chipset

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.

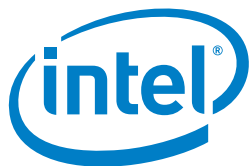
² Processor frequency as shown represents maximum frequency specification for the respective processor number family.

³ Intel® QPI-Intel® QuickPath Interconnect; GT/s-Gigatransfers per second.

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INTEL® DESKTOP PROCESSORS

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PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	MEMORY SPEED	CACHE	PACKAGE	UPC CODE
Intel® Core™ i7-965 Processor Extreme Edition	BX80601965	3.20 GHz	1066 MHz	8 MB L3 shared	LGA1366	7 35858 20471 2
Intel® Core™2 Extreme Quad-Core Processor QX9775	BX80574QX9775	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	MEMORY SPEED	CACHE	PACKAGE	UPC CODE
Intel® Core™ i7-940 Processor	BX80601940	2.93 GHz	1066 MHz	8 MB L3 shared	LGA1366	7 35858 20472 9
Intel Core i7-920 Processor	BX80601920	2.66 GHz	1066 MHz	8 MB L3 shared	LGA1366	7 35858 20473 6
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 Q9550S	BX80569Q9550S	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 Q9400S	BX80580Q9400S	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 Q8300	BX80580Q8300	2.50 GHz	1333 MHz	4 MB L2 shared	LGA775	7 35858 20506 1
Intel Core 2 Quad Processor Q8200	BX80580Q8200	2.33 GHz	1333 MHz	4 MB L2 shared	LGA775	7 35858 20385 2
Intel Core 2 Quad Processor Q8200S	BX80580Q8200S	2.33 GHz	1333 MHz	4 MB L2 shared	LGA775	7 35858 20385 2
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

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

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	MEMORY SPEED	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 E7500	BX80571E7500	2.93 GHz	1066 MHz	3 MB L2 shared	LGA775	7 35858 20696 9
Intel Core 2 Duo Processor E7400	BX80571E7400	2.80 GHz	1066 MHz	3 MB L2 shared	LGA775	7 35858 20503 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 E4700	BX80557E4700	2.60 GHz	800 MHz	2 MB L2 shared	LGA775	7 35858 20018 9
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	MEMORY SPEED	CACHE	PACKAGE	UPC CODE
Intel® Pentium® Processor E5400	BX80571E5400	2.70 GHz	800 MHz	2 MB L2 shared	LGA775	7 35858 20700 3
Intel Pentium Processor E5300	BX80571E5300	2.60 GHz	800 MHz	2 MB L2 shared	LGA775	7 35858 20499 6
Intel Pentium Processor E5200	BX80571E5200	2.50 GHz	800 MHz	2 MB L2 shared	LGA775	7 35858 20388 3
Intel Pentium Processor E2220	BX80557E2220	2.40 GHz	800 MHz	1 MB L2 shared	LGA775	7 35858 20138 4
Intel Pentium Processor E2200	BX80557E2200	2.20 GHz	800 MHz	1 MB L2 shared	LGA775	7 35858 19978 0
Intel Pentium Processor E2180	BX80557E2180	2 GHz	800 MHz	1 MB L2 shared	LGA775	7 35858 19636 9
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	MEMORY SPEED	CACHE	PACKAGE	UPC CODE
Intel® Celeron® Processor E1500	BX80557E1500	2.20 GHz	800 MHz	512 KB L2 shared	LGA775	7 35858 20612 9
Intel Celeron Processor E1400	BX80557E1400	2 GHz	800 MHz	512 KB L2 shared	LGA775	7 35858 20189 6
Intel Celeron Processor E1200	BX80557E1200	1.60 GHz	800 MHz	512 KB L2 shared	LGA775	7 35858 19953 7
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	MEMORY SPEED	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

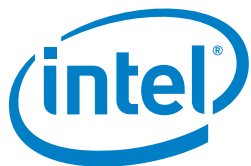
Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number for more details.

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INTEL® DESKTOP BOARDS

Intel® Desktop Boards
Designed for performance.

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	Desktop Board	Form Factor	Processor Technology	Memory	Integrated Graphics	PCIe* x16	PCIe x1	PCI	PATA (devices)	SATA	eSATA	RAID	Audio 2.0	USB	1394	6.40 GT/s QPI	4.80 GT/s QPI	1600 MHz FSB	1333 MHz FSB	1066 MHz FSB	1333 MHz FSB	1066 MHz FSB	1333 MHz FSB	1066 MHz FSB	800 MHz FSB	800/533 MHz FSB	533 MHz FSB	
Extreme	DX58SO	ATX		DDR3 1600		3	1	1		6	2	▪	10-ch	8+4	1+1	▪	▪											
	D5400XS	EATX		FBDIMM 800		4		2		6	2	▪	10-ch	6+4	1+1			▪	▪	▪								
	DX48BT2	ATX		DDR3 1600		3		2	1(2)	6	2	▪	10-ch	8+4	1+1			▪	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
	DP45SG	ATX		DDR3 1333		2	2	3		5	1	▪	10-ch	6+6	1+1				▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
Media	DG45ID	µATX		DDR2 800	HDMI+DVI	1	2	1		5	1	▪	10-ch	6+6	1+1													
	DG45FC	mini-ITX		DDR2 800	HDMI+DVI		1			4	1	▪	10-ch	6+4														
	DP35DP	ATX		DDR2 800		1	3	3	1(2)	6	1	▪	8-ch	6+6	1+1													
Executive	DQ45CB	µATX	vPro	DDR2 800	DVI+DVI	1	2	1		5	1	▪	6-ch	6+6	1+1													
	DQ45EK	mini-ITX	vPro	DDR2 800	DVI+DVI		1			4	1	▪	6-ch	6+4														
	DQ35JO	µATX	vPro	DDR2 800	DVI+VGA	1	2	1	1(2)	6	1	▪	4-ch	6+6	1+1													
	DQ35MP	µATX	vPro	DDR2 800	VGA	1	2	1	1(2)	6	1	▪	4-ch	6+6														
Classic	DG43NB	ATX		DDR2 800	DVI+VGA	1	3	3	1(2)	6			6-ch	6+6	1+1													
	DP43TF	ATX		DDR2 800		1	3	3	1(2)	6			6-ch	6+6	1+1													
	DG41MJ	mini-ITX		DDR2 800	DVI+VGA			1	1(2)	3			6-ch	4+4														
	DG41TY	µATX		DDR2 800	DVI+VGA	1	1	2	1(2)	4			6-ch	4+4														
	DG35EC	µATX		DDR2 800	DVI+VGA	1	2	1	1(2)	4			6-ch	6+4	1+1													
	DG33FB	ATX		DDR2 800	VGA	1	3	3	1(2)	4			6-ch	6+6	1+1													
	DG33BU	µATX		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+4															
Essential	D945GCLF2	mini-ITX		DDR2 667	VGA+S-video			1	1(2)	2			6-ch	4+4														▪
	D945GCLF	mini-ITX		DDR2 667	VGA			1	1(2)	2			4-ch	4+2														▪
	DG41RQ	µATX		DDR2 800	VGA	1		2	1(2)	4			6-ch	4+4														
	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/>



Series	Extreme Series		Extreme Series		Extreme Series	
Product Family	Intel® Desktop Board DX58SO		Intel® Desktop Board D5400XS		Intel® Desktop Board DX48BT2	
Form Factor	ATX		EATX (13" x 12")		ATX	
Product Code/UPC	BOXDX58SO / 00735858203036		BOXD5400XS / 00735858200615		BOXDX48BT2 / 00735858199766	
10-pack Product Code/UPC	BLKDX58SO / 00735858203043		N/A		BLKDX48BT2 / 00735858199773	
Processor Support	Intel® Core™ i7 processor Extreme Edition in the LGA1366 package		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, and Intel® Pentium® processors in the LGA775 package	
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	6.40 GT/s / 4.80 GT/s		1600 MHz / 1333 MHz / 1066 MHz		1600 MHz / 1333 MHz / 1066 MHz	
Chipset	Intel® X58 Express Chipset		Intel® 5400 Express Chipset		Intel® X48 Express Chipset with ICH9R	
Supports HT Technology²	Yes		No		No	
Graphics	None		None		None	
Graphics Connector	2 PCI Express* 2.0 x16 (electrical x16) 1 PCI Express 2.0 x16 (electrical x4)		4 PCI Express* 1.0 x16 (electrical x16)		2 PCI Express* 2.0 x16 (electrical x16) 1 PCI Express x16 (electrical x4)	
Memory Support	DDR3 1600 / 1333 / 1066 SDRAM 4 slots, Tri-channel (16 GB ³ max)		FBDIMM 800 MHz, Quad-channel (16 GB ³ max)		DDR3 1600 / 1333 SDRAM 4 slots, Dual-channel (8 GB ³ max)	
Expansion Slots	1 PCI Express x1, 1 PCI		2 PCI		2 PCI	
Audio	Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby* Home Theater		Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby* Home Theater		Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby* Home Theater	
USB Ports	12 Hi-Speed USB 2.0, 8 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, 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 (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)		Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)		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	
TPM	No		No		No	
Lead Free	Yes		Yes		Yes	
Software	Intel® Desktop Control Center Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Acronis® True Image 11 Home CyberLink® Live Premium Diskeeper® Home Edition DivX® Pro for Windows* Dolby® Control Center Norton 360* PLAYXPERT® In-Game Platform		Kaspersky® Anti-Virus ⁴ Kingsoft® Antivirus ⁵ Kingsoft® Powerword* ⁵		Diskeeper® Home Edition DivX® for Windows* Dolby® Control Center Norton AntiVirus* TypePad* Kaspersky® Anti-Virus ⁴ Kingsoft® Antivirus ⁵ Kingsoft® Powerword* ⁵	
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	



Series	Extreme Series	Media Series	Media Series
Product Family	Intel® Desktop Board DP45SG	Intel® Desktop Board DG45ID	Intel® Desktop Board DG45FC
Form Factor	ATX	MicroATX	Mini-ITX, MicroATX-compatible
Product Code/UPC	BOXDP45SG / 00735858200356	BOXDG45ID / 00735858200387	BOXDG45FC / 00735858200417
10-pack Product Code/UPC	BLKDP45SG / 00735858200363	BLKDG45ID / 00735858200394	BLKDG45FC / 00735858200424
Processor Support	Intel® Core™2 Extreme, Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad (65 W TDP), Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz
Chipset	Intel® P45 Express Chipset with ICH10R	Intel® G45 Express Chipset with ICH10R	Intel® G45 Express Chipset with ICH10R
Supports HT Technology²	No	No	No
Graphics	None	Integrated Intel® Graphics Media Accelerator X4500HD with Intel® Clear Video Technology	Integrated Intel® Graphics Media Accelerator X4500HD with Intel® Clear Video Technology
Graphics Connector	2 PCI Express* 2.0 x16 (electrical x16)	1 PCI Express* x16	N/A
Memory Support	DDR3 1333 / 1066 / 800 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 2 slots, Dual-channel (4 GB ³ max)
Expansion Slots	2 PCI Express x1, 3 PCI	2 PCI Express x1, 1 PCI	1 PCI Express x1
Audio	Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby® Home Theater	Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby® Home Theater	Intel® High Definition Audio: 10-channel audio with jack sensing (back ports: 5 analog, 1 optical). Board supports Dolby® Home Theater
USB Ports	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 2 internal headers	10 Hi-Speed USB 2.0, 6 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)	N/A
Storage	5-port SATA and 1-port eSATA (3.0 Gb/s)	5-port SATA and 1-port eSATA (3.0 Gb/s)	4-port SATA and 1-port eSATA (3.0 Gb/s)
RAID	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	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
TPM	No	No	No
Lead Free	Yes	Yes	Yes
Software	Intel® Desktop Control Center Intel® Desktop Utilities 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-Virus ⁴ Kingsoft® Antivirus ⁵ Kingsoft® Powerword ⁵	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Acronis® True Image 11 Home CyberLink® Live Premium Diskeeper® Home Edition DivX® Pro for Windows™ Dolby® Control Center Laplink® PCmover® Express Norton Antivirus® Skype®
Intel® Advanced BIOS	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	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



Series	Media Series	Executive Series - Supports Intel® vPro™ Technology	Executive Series - Supports Intel® vPro™ Technology
Product Family	Intel® Desktop Board DP35DP	Intel® Desktop Board DQ45CB	Intel® Desktop Board DQ45EK
Form Factor	ATX	MicroATX	Mini-ITX, MicroATX-compatible
Product Code/UPC	BOXDP35DPM / 00735858192453	BOXDQ45CB / 00735858200295	BOXDQ45EK / 00735858200325
10-pack Product Code/UPC	BLKDP35DPM / 00735858192460	BLKDQ45CB / 00735858200301	BLKDQ45EK / 00735858200332
Processor Support	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad (65 W TDP), Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz
Chipset	Intel® P35 Express Chipset with ICH9R	Intel® Q45 Express Chipset with ICH10D Intel® Active Management Technology Specification 5.0	Intel® Q45 Express Chipset with ICH10D Intel® Active Management Technology Specification 5.0
Supports HT Technology²	No	No	No
Graphics	None	Intel® Graphics Media Accelerator 4500 with Dual-Independent Display capability (DVI-D + DVI-I outputs)	Intel® Graphics Media Accelerator 4500 with Dual-Independent Display capability (DVI-D + DVI-I outputs)
Graphics Connector	PCI Express* x16	PCI Express* x16	N/A
Memory Support	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (4 GB ³ max)
Expansion Slots	3 PCI Express x1, 3 PCI	2 PCI Express x1, 1 PCI	1 PCI Express*
Audio	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: 6-channel codec	Intel® High Definition Audio: 6-channel codec
USB Ports	12 Hi-Speed USB 2.0, 6 back ports / 6 ports via internal headers	12 Hi-Speed USB 2.0, 6 external ports / 6 ports via 3 internal headers	10 Hi-Speed USB 2.0, 6 external ports / 4 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)	N/A
Storage	6-port SATA and 1-port eSATA (3.0 Gb/s)	5-port SATA (3.0 Gb/s) with port multiplier and 1-port eSATA	4-port SATA (3.0 Gb/s) with port multiplier and 1-port eSATA
RAID	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	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
TPM	No	No	No
Lead Free	Yes	Yes	Yes
Software	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition DivX* for Windows* Dolby* Control Center Norton AntiVirus* Skype* TypePad* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵ Kingsoft* Powerword* ⁵	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Intel® System Defense Utility Acronis* True Image 11 Home Diskeeper* Home Edition Laplink* PCmover* Express Norton* 360 TypePad* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵ Kingsoft* Powerword* ⁵	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Intel® System Defense Utility Acronis* True Image 11 Home Diskeeper* Home Edition Laplink* PCmover* Express Norton* 360 TypePad* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵ Kingsoft* Powerword* ⁵
Intel® Advanced BIOS	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology	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® Quiet System Technology
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™ Technology	Executive Series - Supports Intel® vPro™ Technology	Classic Series - Supports Intel® Platform Administration Technology	
Product Family	Intel® Desktop Board DQ35J0	Intel® Desktop Board DQ35MP	Intel® Desktop Board DG43NB	
Form Factor	MicroATX	MicroATX	ATX	
Product Code/UPC	BOXDQ35J0E / 00735858888804	BOXDQ35MPE / 00735858888805	BOXDG43NB / 00735858201766	
10-pack Product Code/UPC	BLKDQ35J0E / 00735858888802	BLKDQ35MPE / 00735858888803	BLKDG43NB / 00735858201773	
Processor Support	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	
Chipset	Intel® Q35 Express Chipset with ICH9DO Intel® Active Management Technology Specification 3.0	Intel® Q35 Express Chipset with ICH9DO Intel® Active Management Technology Specification 3.0	Intel® G43 Express Chipset	
Supports HT Technology²	No	No	No	
Graphics	Intel® Graphics Media Accelerator 3100 with Dual-Independent Display capability (VGA + DVI-D outputs)	Intel® Graphics Media Accelerator 3100	Intel® Graphics Media Accelerator X4500 with Dual-Independent Display capability (VGA + DVI-D outputs)	
Graphics Connector	PCI Express* x16	PCI Express* x16	PCI Express* x16	
Memory Support	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 2 slots, Dual-channel (4 GB ³ max)	
Expansion Slots	2 PCI Express x1, 1 PCI	2 PCI Express x1, 1 PCI	3 PCI Express x1, 3 PCI	
Audio	Intel® High Definition Audio: 4-channel codec	Intel® High Definition Audio: 4-channel codec	Intel® High Definition Audio: 6-channel audio with jack sensing	
USB Ports	12 Hi-Speed USB 2.0, 6 external ports / 6 ports via 3 internal headers	12 Hi-Speed USB 2.0, 6 external ports / 6 ports via 3 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)	N/A	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)	
Storage	6-port SATA (3.0 Gb/s) with port multiplier and 1-port eSATA Parallel ATA 100/66 port	6-port SATA (3.0 Gb/s) with port multiplier and 1-port eSATA Parallel ATA 100/66 port	6-port SATA (3.0 Gb/s, NCQ, Hot Plug) and ATA 100/66 up to two devices	
RAID	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	Intel® Matrix Storage Technology (RAID 0, 1, 5, 10, with Intel® Rapid Recover Technology)	No	
Onboard LAN	Intel® PRO 10/100/1000 Network Connection Intel® Active Management Technology (Intel® AMT) ⁶ with System Defense Feature	Intel® PRO 10/100/1000 Network Connection Intel® Active Management Technology (Intel® AMT) ⁶ with System Defense Feature	Intel® PRO 10/100/1000 Network Connection	
TPM	Trusted Platform Module 1.2 Intel® Trusted Execution Technology Ready	Trusted Platform Module 1.2 Intel® Trusted Execution Technology Ready	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* 360 Norton AntiVirus*	Premium VoIP Service Offers SAAZ* Starter Edition 5.0 SyAM* Software Desktop Monitor Central Wave* EMBASSY* Trust Suite Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵	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-Virus ⁴ Kingsoft* Antivirus ⁵
Intel® Advanced BIOS	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology	Intel® Express BIOS Update Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology	Intel® Express BIOS Update Intel® Rapid BIOS Boot Digital Signature Technology Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Quiet System Technology	
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 - Supports Intel® Platform Administration Technology		Classic Series - Supports Intel® Platform Administration Technology		Classic Series - Supports Intel® Platform Administration Technology	
Product Family	Intel® Desktop Board DP43TF		Intel® Desktop Board DG41MJ		Intel® Desktop Board DG41TY	
Form Factor	ATX		Mini-ITX, MicroATX-compatible		MicroATX	
Product Code/UPC	BOXDP43TF / 00735858202046		BOXDG41MJ / 00735858206907		BOXDG41TY / 00735858204392	
10-pack Product Code/UPC	BLKDP43TF / 00735858202053		BLKDG41MJ / 00735858206914		BLKDG41TY / 00735858204385	
Processor Support	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package		Intel® Core™2 Quad (65 W TDP), Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package		Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	
Intel® QPI (GT/s) ¹ / Supported FSB (MHz)	1333 MHz / 1066 MHz / 800 MHz		1333 MHz / 1066 MHz / 800 MHz		1333 MHz / 1066 MHz / 800 MHz	
Chipset	Intel® P43 Express Chipset		Intel® G41 Express Chipset		Intel® G41 Express Chipset	
Supports HT Technology ²	No		No		No	
Graphics	None		Intel® Graphics Media Accelerator X4500 with Dual-Independent Display capability (VGA + DVI-D outputs)		Intel® Graphics Media Accelerator X4500 with Dual-Independent Display capability (VGA + DVI-D outputs)	
Graphics Connector	PCI Express* x16		N/A		PCI Express* x16	
Memory Support	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)		DDR2 800 / 667 SDRAM 2 slots, Dual-channel (8 GB ³ max)		DDR2 800 / 667 SDRAM 2 slots, Dual-channel (8 GB ³ max)	
Expansion Slots	3 PCI Express x1, 3 PCI		1 PCI		1 PCI Express x1, 2 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	12 Hi-Speed USB 2.0, 6 back ports / 6 ports via 3 internal headers		8 Hi-Speed USB 2.0, 4 back ports / 4 ports via 2 internal headers		8 Hi-Speed USB 2.0, 4 back ports / 4 ports via 2 internal headers	
1394	Up to 2 IEEE 1394a ports (1 back port, 1 via internal header)		No		No	
Storage	6-port SATA (3.0 Gb/s, NCQ, Hot Plug) and ATA 100/66 up to two devices		3-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	
RAID	No		No		No	
Onboard LAN	Intel® PRO 10/100/1000 Network Connection		Integrated 10/100/1000 Network Connection		Realtek* Gigabit Ethernet Controller RTL 8111D	
TPM	No		No		No	
Lead Free	Yes		Yes		Yes	
Software	Intel® Integrator Assistant Intel® Platform Administration Technology Acronis* True Image OEM Diskeeper* Home Edition DivX* for Windows* Laplink* PCmover* Express Norton Internet Security* Skype* TypePad* WildTangent*	Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵ Kingsoft* Powerword* ⁵	Intel® Integrator Assistant Intel® Platform Administration Technology Acronis* True Image OEM Diskeeper* Home Edition DivX* for Windows Laplink* PCmover* Express Norton Internet Security* Skype* TypePad* WildTangent*	Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵ Kingsoft* Powerword* ⁵	Intel® Integrator Assistant Intel® Platform Administration Technology Acronis* True Image OEM Diskeeper* Home Edition DivX* for Windows Laplink* PCmover* Express Norton Internet Security* Skype* TypePad* WildTangent*	Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵ Kingsoft* Powerword* ⁵
Intel® Advanced BIOS	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		Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Rapid BIOS Boot Intel® Express BIOS Update 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* Premium		Windows Vista* Premium	
Warranty	3 year limited warranty		3 year limited warranty		3 year limited warranty	



Series	Classic Series - Supports Intel® Platform Administration Technology	Classic Series - Supports Intel® Platform Administration Technology	Classic Series - Supports Intel® Platform Administration Technology
Product Family	Intel® Desktop Board DG35EC	Intel® Desktop Board DG33FB	Intel® Desktop Board DG33BU
Form Factor	MicroATX	ATX	MicroATX
Product Code/UPC	BOXDG35EC / 00735858200448	BOXDG33FBC / 00735858192064	BOXDG33BUC / 00735858192095
10-pack Product Code/UPC	BLKDG35EC / 00735858200455	BLKDG33FBC / 00735858192071	BLKDG33BUC / 00735858192101
Processor Support	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz
Chipset	Intel® G35 Express Chipset	Intel® G33 Express Chipset (refer to the Desktop Platforms Matrix)	Intel® G33 Express Chipset (refer to the Desktop Platforms Matrix)
Supports HT Technology²	No	Yes	Yes
Graphics	Intel® Graphics Media Accelerator X3500 with Dual-Independent Display capability (VGA + DVI-D outputs)	Intel® Graphics Media Accelerator 3100 with Intel® Clear Video Technology	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 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (8 GB ³ max)
Expansion Slots	2 PCI Express x1, 1 PCI	3 PCI Express x1, 3 PCI	1 PCI Express x1, 2 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	12 Hi-Speed USB 2.0, 6 back ports / 6 ports via 3 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	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	4-port SATA (3.0 Gb/s) and ATA 100/66 up to two devices
RAID	No	No	No
Onboard LAN	Intel® PRO 10/100/1000 Network Connection	Intel® PRO 10/100/1000 Network Connection	Intel® PRO 10/100/1000 Network Connection
TPM	No	No	No
Lead Free	Yes	Yes	Yes
Software	Intel® Integrator Assistant Intel® Integrator Toolkit Intel® Platform Administration Technology Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* WildTangent* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵	Intel® Desktop Utilities Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵
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® 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® 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 - Supports Intel® Platform Administration Technology	Essential Series - Supports Intel® Platform Administration Technology	Essential Series - Supports Intel® Platform Administration Technology
Product Family	Intel® Desktop Boards DG31PR	Intel® Desktop Board D945GCLF2	Intel® Desktop Board D945GCLF
Form Factor	MicroATX	Mini-ITX, MicroATX-compatible	Mini-ITX, MicroATX-compatible
Product Code/UPC	BOXDG31PRC / 00735858891347	BOXD945GCLF2 / 00735858201278	BOXD945GCLF / 00735858201247
10-pack Product Code/UPC	BLKDG31PR / 00735858891348	BLKD945GCLF2 / 00735858201285	BLKD945GCLF / 00735858201254
Processor Support	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Atom™ Processor 330 integrated	Intel® Atom™ Processor 230 integrated in BGA package
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	1333 MHz / 1066 MHz / 800 MHz	533 MHz	533 MHz
Chipset	Intel® G31 Express Chipset with ICH7	Intel® 945GC Express Chipset with ICH7	Intel® 945GC Express Chipset with ICH7
Supports HT Technology²	Yes	No	No
Graphics	Intel® Graphics Media Accelerator 3100	Intel® Graphics Media Accelerator 950	Intel® Graphics Media Accelerator 950
Graphics Connector	PCI Express* x16	N/A	N/A
Memory Support	DDR2 800 / 667 SDRAM 2 slots, Dual-channel (4 GB ³ max)	DDR2 667 / 533 SDRAM 1 slot, Single-channel (2 GB max)	DDR2 667 / 533 SDRAM 1 slot, Single-channel (2 GB max)
Expansion Slots	1 PCI Express x1, 2 PCI	1 PCI	1 PCI
Audio	Intel® High Definition Audio: 6-channel audio with jack sensing Front panel mic/headphone header	6-channel audio (with multi-streaming support)	4-channel audio (with multi-streaming support)
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	6 Hi-Speed USB 2.0, 4 back ports / 2 ports via 1 internal header
1394	N/A	N/A	N/A
Storage	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	2-port SATA and ATA 100 up to two devices
RAID	No	No	No
Onboard LAN	Integrated 10/100/1000 Network Connection	Realtek* 10/100/1000 Network Connection	Realtek* 10/100 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-Virus ⁴ Kingsoft* Antivirus ⁵	Intel® Integrator Assistant Intel® Integrator Toolkit Intel® Platform Administration Technology Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper* Home Edition Norton Internet Security* Skype* TypePad* Kaspersky* Anti-Virus ⁴ Kingsoft* Antivirus ⁵
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® Rapid BIOS Boot	Intel® Express BIOS Update Intel® Rapid BIOS Boot
Windows Vista* and WHQL Support	Windows Vista* Premium	Windows Vista* Basic	Windows Vista* Basic
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty



Series	Essential Series - Supports Intel® Platform Administration Technology	Essential Series - Supports Intel® Platform Administration Technology	Essential Series - Supports Intel® Platform Administration Technology
Product Family	Intel® Desktop Board DG41RQ	Intel® Desktop Board DG31GL	Intel® Desktop Board D945GCNL
Form Factor	MicroATX	MicroATX	MicroATX
Product Code/UPC	BOXDG41RQ / 00735858206860	BOXDG31GL / 00735858200929	BOXD945GCNL / 00735858891241
10-pack Product Code/UPC	BLKDG41RQ / 00735858206877	BLKDG31GL / 00735858200936	BLKD945GCNL / 00735858891242
Processor Support	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Quad, Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package	Intel® Core™2 Duo, Intel® Pentium®, and Intel® Celeron® processors in the LGA775 package
Intel® QPI (GT/s)¹ / Supported FSB (MHz)	1333 MHz / 1066 MHz / 800 MHz	1333 MHz / 1066 MHz / 800 MHz	1066 MHz / 800 MHz
Chipset	Intel® G41 Express Chipset	Intel® G31 Express Chipset	Intel® 945GC Express Chipset with ICH7
Supports HT Technology²	No	No	Yes
Graphics	Intel® Graphics Media Accelerator X4500	Intel® Graphics Media Accelerator 3100	Intel® Graphics Media Accelerator 950
Graphics Connector	PCI Express* x16	N/A	PCI Express* x16
Memory Support	DDR2 800 / 667 SDRAM 2 slots, Dual-channel (8 GB³ max)	DDR2 800 / 667 SDRAM 4 slots, Dual-channel (4 GB³ 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	Intel® High Definition Audio: 6-channel audio	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 back 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	No	N/A	N/A
Storage	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, 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 10/100/1000 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® Platform Administration Technology Acronis® True Image OEM Diskeeper® Home Edition DivX® for Windows* Laplink® PCmover® Express Norton Internet Security* Skype* TypePad* WildTangent*	Kaspersky® Anti-Virus⁴ Kingsoft® Antivirus⁵ Kingsoft® Powerword*⁵	Intel® Integrator Assistant Intel® Integrator Toolkit Diskeeper® Home Edition Intel® Platform Administration Technology Diskeeper® Home Edition Norton Internet Security* Skype* TypePad* Kaspersky® Anti-Virus⁴ Kingsoft® Antivirus⁵
Intel® Advanced BIOS	Intel® Platform Innovation Framework for the Extensible Firmware Interface (EFI) Intel® Rapid BIOS Boot Intel® Express BIOS Update 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® Basic	Windows Vista® Basic	Windows Vista® Premium
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty

INTEL® DESKTOP ADAPTERS

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



10/100 Mb/s-OVER-COPPER



Product Code—Singles

Product Code—Bulk Twenty Packs (Full-Height End-Brackets)

Product Code—Bulk Twenty Packs (Low-Profile End Brackets)

Connector

Ethernet Controllers

Bus Width and Type

	Intel® Gigabit CT Desktop Adapter	Intel® PRO/1000 PT Desktop Adapter	Intel® PRO/1000 GT Desktop Adapter	Intel® PRO/100 S Desktop Adapter-w/3DES (168-bit)	Intel® PRO/100 M Desktop Adapter
Product Code—Singles	EXPI9301CT	EXPI9300PT	PWLA8391GT	PILA8460C3	PILA8460M
Product Code—Bulk Twenty Packs (Full-Height End-Brackets)	EXPI9301CTBLK ⁷	EXPI9300PTBLK	PWLA8391GTBLK	PILA8460C3BLK	PILA8460MBLK20
Product Code—Bulk Twenty Packs (Low-Profile End Brackets)	EXPI9301CTBLK ⁷	EXPI9300PTLPBLK	PWLA8391GTLBLK	N/A	N/A
Connector	1 RJ-45	1 RJ-45	1 RJ-45	1 RJ-45	1 RJ-45
Ethernet Controllers	Intel® 82574L	Intel® 82572GI	Intel® 82541PI	Intel® 82550EY	Intel® 82551QM
Bus Width and Type	PCI Express* x1	PCI Express* x1	32-bit PCI 2.3	32-bit PCI 2.2	32-bit PCI 2.2

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

¹ Intel® QPI—Intel® QuickPath Interconnect; GT/s—Gigatransfers per second.

² Intel® Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support HT Technology, see www.intel.com/info/hyperthreading.

³ 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.

⁴ Russian only

⁵ Chinese only

⁶ 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.

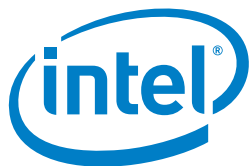
⁷ Full-height bracket installed, low-profile bracket added in package.

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 CONFIDENTIAL



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	<ul style="list-style-type: none"> ▪ 1080p, 1080i, and 720p ▪ Native support for full Blu-ray* playback 	<ul style="list-style-type: none"> ▪ Advanced De-Interlacing (HD and SD) ▪ Sharpness / Detail Filter ▪ Cadence Detection 	<ul style="list-style-type: none"> ▪ DirectX* 10 ▪ Shader Model 4.0 ▪ OpenGL* 2.0 	<ul style="list-style-type: none"> ▪ DisplayPort* ▪ Integrated HDMI, DVI, and S-Video ▪ Intel® TV Tuner Wizard ▪ Dual-Independent Display 	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 1080p, 1080i, and 720p ▪ Support for Blu-ray* playback 	<ul style="list-style-type: none"> ▪ Adaptive De-Interlacing 	<ul style="list-style-type: none"> ▪ DirectX* 10 ▪ Shader Model 4.0 ▪ OpenGL* 2.0 	<ul style="list-style-type: none"> ▪ DisplayPort* ▪ Integrated HDMI, DVI, and S-Video ▪ Intel® TV Tuner Wizard ▪ Dual-Independent Display 	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 1080p, 1080i, and 720p ▪ Support for Blu-ray* playback 	<ul style="list-style-type: none"> ▪ Advanced De-Interlacing ▪ Sharpness / Detail Filter 	<ul style="list-style-type: none"> ▪ DirectX* 10 ▪ Shader Model 4.0 ▪ OpenGL* 2.0 	<ul style="list-style-type: none"> ▪ HDMI, DVI, and S-Video ▪ Intel® TV Tuner Wizard ▪ Dual-Independent Display 	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 1080p, 1080i, and 720p 	<ul style="list-style-type: none"> ▪ Adaptive De-Interlacing 	<ul style="list-style-type: none"> ▪ DirectX* 9.0c ▪ Shader Model 2.0 ▪ OpenGL* 1.4 	<ul style="list-style-type: none"> ▪ DVI and S-Video ▪ Dual-Independent Display 	<ul style="list-style-type: none"> ▪ Ultimate ▪ Home Premium ▪ Enterprise ▪ Basic

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.

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
Best	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	<ul style="list-style-type: none"> ▪ 1080p, 1080i, and 720p ▪ Native support for full Blu-ray* playback 	<ul style="list-style-type: none"> ▪ Advanced De-Interlacing ▪ Sharpness / Detail Filter ▪ Cadence Detection 	<ul style="list-style-type: none"> ▪ DirectX* 10 ▪ Shader Model 4.0 ▪ OpenGL* 2.0 	<ul style="list-style-type: none"> ▪ DisplayPort* ▪ Integrated HDMI, DVI, and S-Video ▪ Intel® TV Tuner Wizard ▪ Dual-Independent Display 	Yes
Small Form Factor	Mobile Intel® Graphics Media Accelerator 4000M Series	GS45	Energy-efficient graphics performance for ultra-mobile PCs.	Up to 829 MB ¹	<ul style="list-style-type: none"> ▪ 1080p, 1080i, and 720p ▪ Native support for full Blu-ray* playback 	<ul style="list-style-type: none"> ▪ Advanced De-Interlacing ▪ Sharpness / Detail Filter ▪ Cadence Detection 	<ul style="list-style-type: none"> ▪ DirectX* 10 ▪ Shader Model 4.0 ▪ OpenGL* 2.0 	<ul style="list-style-type: none"> ▪ DisplayPort* ▪ Integrated HDMI, DVI, and S-Video ▪ Intel® TV Tuner Wizard ▪ Dual-Independent Display 	Yes
Entry	Mobile Intel® Graphics Media Accelerator 4000M Series	GL40	Great entry platform to meet all basic computing needs.	Up to 829 MB ¹	<ul style="list-style-type: none"> ▪ 1080p, 1080i, and 720p ▪ Native support for full Blu-ray* playback 	<ul style="list-style-type: none"> ▪ Advanced De-Interlacing ▪ Sharpness / Detail Filter 	<ul style="list-style-type: none"> ▪ DirectX* 10 ▪ Shader Model 4.0 ▪ OpenGL* 2.0 	<ul style="list-style-type: none"> ▪ 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.

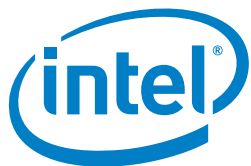
¹ Supported on Windows Vista* with 2 GB configuration

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

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

INTEL CONFIDENTIAL



PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE/TYPE
Intel® Core™2 Extreme Processor QX9300	AW80581ZH061003 (Tray Only)	2.53 GHz	1066 MHz	12 MB L2	Socket-P (45nm)
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 Quad Processor Q9100	AW80581GH051003 (Tray Only)	2.26 GHz	1066 MHz	12 MB L2	Socket-P (45nm)
Intel Core 2 Quad Processor Q9000	BX80581Q9000	2 GHz	1066 MHz	6 MB L2	Socket-P (45nm)
PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	PACKAGE/TYPE
Intel® Core™2 Duo Processor T9800	AW80576GH0776MG (Tray Only)	2.93 GHz	1066 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T9600	BX80576T9600	2.80 GHz	1066 MHz	6 MB L2	Socket-P (45nm)
Intel Core 2 Duo Processor T9550	BX80576T9550	2.66 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 P9600	AW80576SH0676MG (Tray Only)	2.66 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 P8700	BX80577P8700	2.53 GHz	1066 MHz	3 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 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 T1700	LF80537NF0341MN (Tray Only)	1.83 GHz	667 MHz	1 MB L2	Socket-P
Intel Celeron Processor T1600	LF80537NF0281MN (Tray Only)	1.66 GHz	667 MHz	1 MB L2	Socket-P
Intel Celeron Processor 585	LF80537NF0481M (Tray Only)	2.16 GHz	667 MHz	1 MB L2	Socket-P
Intel Celeron Processor 575	LF80537NF0411M (Tray Only)	2 GHz	667 MHz	1 MB L2	Socket-P
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

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

INTEL® PRO/WIRELESS NETWORK CONNECTIONS

PRODUCT NAME	PRODUCT CODE	WLAN STANDARD	FREQUENCY BAND	FORM FACTOR
Intel® WiFi* Link 5300 <i>(for the Intel® Centrino® 2 with vPro™ technology)</i>	533AN_MMWW2	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 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 <i>(for the Intel® Centrino® 2 with vPro™ technology)</i>	512AN_MMWW2	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

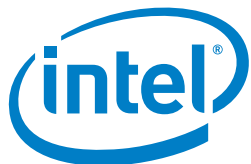
Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number for more details.

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INTEL® SERVER/WORKSTATION PROCESSORS



MULTI-CORE INTEL® XEON® PROCESSOR W3500 SERIES FOR WORKSTATION SYSTEMS FEATURING ONE LGA1366 SOCKET *(thermal solution included)*

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	INTEL® QPI ¹ SPEED	SHARED L3 CACHE	MAX. MEMORY SPEED	NO. OF CORES/ THREADS	INTEL® HYPER-THREADING TECHNOLOGY ²	INTEL® TURBO BOOST TECHNOLOGY ³	POWER	UPC CODE
Intel® Xeon® Processor W3570	BX80601W3570	3.20 GHz	6.40 GT/s	8 MB	1333 MHz	4 / 8	■	■	130 W	7 35858 20633 4
Intel Xeon Processor W3540	BX80601W3540	2.93 GHz	4.80 GT/s	8 MB	1066 MHz	4 / 8	■	■	130 W	7 35858 20634 1
Intel Xeon Processor W3520	BX80601W3520	2.66 GHz	4.80 GT/s	8 MB	1066 MHz	4 / 8	■	■	130 W	7 35858 20635 8

MULTI-CORE INTEL® XEON® PROCESSOR 3000 SEQUENCE FOR SERVER/WORKSTATION SYSTEMS FEATURING ONE LGA775 SOCKET

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	L2 CACHE	NO. OF CORES / THREADS	POWER	UPC CODE
Intel® Xeon® Processor X3370	BX80569X3370	3 GHz	1333 MHz	12 MB	4 / 4	95 W	7 35858 20344 9
Intel Xeon Processor X3360	BX80569X3360	2.83 GHz	1333 MHz	12 MB	4 / 4	95 W	7 35858 19986 5
Intel Xeon Processor L3360	BX80569L3360	2.83 GHz	1333 MHz	12 MB	4 / 4	65 W	7 35858 20631 0
Intel Xeon Processor X3350	BX80569X3350	2.66 GHz	1333 MHz	12 MB	4 / 4	95 W	7 35858 19987 2
Intel Xeon Processor X3330	BX80569X3330	2.66 GHz	1333 MHz	6 MB	4 / 4	95 W	7 35858 20343 2
Intel Xeon Processor X3320	BX80580X3320	2.50 GHz	1333 MHz	6 MB	4 / 4	95 W	7 35858 19982 7
Intel Xeon Processor X3230	BX80562X3230	2.66 GHz	1066 MHz	8 MB	4 / 4	95 W	7 35858 19537 9
Intel Xeon Processor X3220	BX80562X3220	2.40 GHz	1066 MHz	8 MB	4 / 4	95 W	7 35858 19122 7
Intel Xeon Processor X3210	BX80562X3210	2.13 GHz	1066 MHz	8 MB	4 / 4	95 W	7 35858 19123 4
Intel Xeon Processor E3120	BX80570E3120	3.16 GHz	1333 MHz	6 MB	2 / 2	65 W	7 35858 20345 6
Intel Xeon Processor E3110	BX80570E3110	3 GHz	1333 MHz	6 MB	2 / 2	65 W	7 35858 19983 4
Intel Xeon Processor L3110	BX80570L3110	3 GHz	1333 MHz	6 MB	2 / 2	45 W	7 35858 20632 7

Intel® Xeon® processors are the preferred choice for demanding server applications. 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 7000 sequence processors provide 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 5500 SERIES FOR SERVER/WORKSTATION SYSTEMS FEATURING TWO LGA1366 SOCKETS (thermal solution sold separately)

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	INTEL® QPI ¹ SPEED	SHARED L3 CACHE	MAX. MEMORY SPEED	NO. OF CORES/ THREADS	INTEL® HYPER-THREADING TECHNOLOGY ²	INTEL® TURBO BOOST TECHNOLOGY ³	POWER	UPC CODE
Intel® Xeon® Processor W5580	BX80602W5580	3.20 GHz	6.40 GT/s	8 MB	1333 MHz	4 / 8	■	■	130 W	7 35858 20568 9
Intel Xeon Processor X5570	BX80602X5570	2.93 GHz	6.40 GT/s	8 MB	1333 MHz	4 / 8	■	■	95 W	7 35858 20569 6
Intel Xeon Processor X5560	BX80602X5560	2.80 GHz	6.40 GT/s	8 MB	1333 MHz	4 / 8	■	■	95 W	7 35858 20570 2
Intel Xeon Processor X5550	BX80602X5550	2.66 GHz	6.40 GT/s	8 MB	1333 MHz	4 / 8	■	■	95 W	7 35858 20571 9
Intel Xeon Processor E5540	BX80602E5540	2.53 GHz	5.86 GT/s	8 MB	1066 MHz	4 / 8	■	■	80 W	7 35858 20572 6
Intel Xeon Processor E5530	BX80602E5530	2.40 GHz	5.86 GT/s	8 MB	1066 MHz	4 / 8	■	■	80 W	7 35858 20573 3
Intel Xeon Processor E5520	BX80602E5520	2.26 GHz	5.86 GT/s	8 MB	1066 MHz	4 / 8	■	■	80 W	7 35858 20574 0
Intel Xeon Processor L5520	BX80602L5520	2.26 GHz	5.86 GT/s	8 MB	1066 MHz	4 / 8	■	■	60 W	7 35858 20575 7
Intel Xeon Processor E5506	BX80602E5506	2.13 GHz	4.80 GT/s	4 MB	800 MHz	4 / 4			80 W	7 35858 20576 4
Intel Xeon Processor L5506	BX80602L5506	2.13 GHz	4.80 GT/s	4 MB	800 MHz	4 / 4			60 W	7 35858 20579 5
Intel Xeon Processor E5504	BX80602E5504	2 GHz	4.80 GT/s	4 MB	800 MHz	4 / 4			80 W	7 35858 20577 1
Intel Xeon Processor E5502	BX80602E5502	1.86 GHz	4.80 GT/s	4 MB	800 MHz	2 / 2			80 W	7 35858 20578 8

INTEL® THERMAL SOLUTION STS100 SERIES FOR SERVER/WORKSTATION SYSTEMS FEATURING TWO LGA1366 SOCKETS

PRODUCT NAME	BOXED PRODUCT CODE	DESCRIPTION	RECOMMENDED USAGE ⁴	MAX. THERMAL DESIGN POWER
Intel® Thermal Solution STS100C	BXSTS100C	Passive/Active combination heatsink with removable fan	<p>With fan installed:</p> <ul style="list-style-type: none"> ▪ Pedestal chassis that provide adequate ventilation and correct temperature air to the thermal solution. <p>With fan removed:</p> <ul style="list-style-type: none"> ▪ Pedestal chassis that provide ducted airflow to the thermal solution. ▪ 2U or larger rack chassis⁴ that provide ducted airflow to the thermal solution. 	130 W
Intel Thermal Solution STS100A	BXSTS100A	Active heatsink with fixed fan	Pedestal chassis that provide adequate ventilation and correct temperature air to the thermal solution.	80 W
Intel Thermal Solution STS100P	BXSTS100P	25.5mm-tall passive heatsink	1U, 2U, or blade chassis that provide ducted airflow to the thermal solution.	95 W

For more information on boxed server processors and thermal solutions, visit www.intel.com/go/boxedxeon

MULTI-CORE INTEL® XEON® PROCESSOR 5000 SEQUENCE FOR SERVER/WORKSTATION SYSTEMS FEATURING TWO LGA771 SOCKETS

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	L2 CACHE	NO. OF CORES / THREADS	POWER	UPC CODE
Intel® Xeon® Processor X5492	AT80574KL096N <i>(tray only)</i>	3.40 GHz	1600 MHz	12 MB	4 / 4	150 W	
Intel Xeon Processor X5482	AT80574KL088NT <i>(tray only)</i>	3.20 GHz	1600 MHz	12 MB	4 / 4	120 W	
Intel Xeon Processor X5472	EU80574KL080NT <i>(tray only)</i>	3 GHz	1600 MHz	12 MB	4 / 4	120 W	
Intel Xeon Processor E5472	EU80574KL080N <i>(tray only)</i>	3 GHz	1600 MHz	12 MB	4 / 4	80 W	
Intel Xeon Processor E5462	EU80574KL072N <i>(tray only)</i>	2.80 GHz	1600 MHz	12 MB	4 / 4	80 W	
Intel Xeon Processor X5470	BX80574X5470P <i>(2U passive heatsink)</i>	3.33 GHz	1333 MHz	12 MB	4 / 4	120 W	7 35858 20374 6
	BX80574X5470A <i>(active or 1U heatsink)</i>	3.33 GHz	1333 MHz	12 MB	4 / 4	120 W	7 35858 20373 9
Intel Xeon Processor X5460	BX80574X5460P <i>(2U passive heatsink)</i>	3.16 GHz	1333 MHz	12 MB	4 / 4	120 W	7 35858 19880 6
	BX80574X5460A <i>(active or 1U heatsink)</i>	3.16 GHz	1333 MHz	12 MB	4 / 4	120 W	7 35858 19879 0
Intel Xeon Processor X5450	BX80574X5450P <i>(2U passive heatsink)</i>	3 GHz	1333 MHz	12 MB	4 / 4	120 W	7 35858 19882 0
	BX80574X5450A <i>(active or 1U heatsink)</i>	3 GHz	1333 MHz	12 MB	4 / 4	120 W	7 35858 19881 3
Intel Xeon Processor E5450	BX80574E5450P <i>(2U passive heatsink)</i>	3 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19884 4
	BX80574E5450A <i>(active or 1U heatsink)</i>	3 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19883 7
Intel Xeon Processor E5440	BX80574E5440P <i>(2U passive heatsink)</i>	2.83 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19886 8
	BX80574E5440A <i>(active or 1U heatsink)</i>	2.83 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19885 1
Intel Xeon Processor E5430	BX80574E5430P <i>(2U passive heatsink)</i>	2.66 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19888 2
	BX80574E5430A <i>(active or 1U heatsink)</i>	2.66 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19887 5

MULTI-CORE INTEL® XEON® PROCESSOR 5000 SEQUENCE FOR SERVER/WORKSTATION SYSTEMS FEATURING TWO LGA771 SOCKETS *continued*

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	L2 CACHE	NO. OF CORES / THREADS	POWER	UPC CODE
Intel® Xeon® Processor L5430	BX80574L5430P <i>(2U passive heatsink)</i>	2.66 GHz	1333 MHz	12 MB	4 / 4	50 W	7 35858 20376 0
	BX80574L5430A <i>(active or 1U heatsink)</i>	2.66 GHz	1333 MHz	12 MB	4 / 4	50 W	7 35858 20375 3
Intel Xeon Processor E5420	BX80574E5420P <i>(2U passive heatsink)</i>	2.50 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19890 5
	BX80574E5420A <i>(active or 1U heatsink)</i>	2.50 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19889 9
Intel Xeon Processor L5420	BX80574L5420P <i>(2U passive heatsink)</i>	2.50 GHz	1333 MHz	12 MB	4 / 4	50 W	7 35858 19896 7
	BX80574L5420A <i>(active or 1U heatsink)</i>	2.50 GHz	1333 MHz	12 MB	4 / 4	50 W	7 35858 19895 0
Intel Xeon Processor E5410	BX80574E5410P <i>(2U passive heatsink)</i>	2.33 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19892 9
	BX80574E5410A <i>(active or 1U heatsink)</i>	2.33 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19891 2
Intel Xeon Processor L5410	BX80574L5410P <i>(2U passive heatsink)</i>	2.33 GHz	1333 MHz	12 MB	4 / 4	50 W	7 35858 19898 1
	BX80574L5410A <i>(active or 1U heatsink)</i>	2.33 GHz	1333 MHz	12 MB	4 / 4	50 W	7 35858 19897 4
Intel Xeon Processor E5405	BX80574E5405P <i>(2U passive heatsink)</i>	2 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19894 3
	BX80574E5405A <i>(active or 1U heatsink)</i>	2 GHz	1333 MHz	12 MB	4 / 4	80 W	7 35858 19893 6
Intel Xeon Processor X5272	AT80573KL0966M <i>(tray only)</i>	3.40 GHz	1600 MHz	6 MB	2 / 2	80 W	
Intel Xeon Processor X5270	AT80573KJ1006M <i>(tray only)</i>	3.50 GHz	1333 MHz	6 MB	2 / 2	80 W	
Intel Xeon Processor X5260	AT80573KJ0936M <i>(tray only)</i>	3.33 GHz	1333 MHz	6 MB	2 / 2	80 W	
Intel Xeon Processor L5240	AT80573JJ0806M <i>(tray only)</i>	3 GHz	1333 MHz	6 MB	2 / 2	40 W	
Intel Xeon Processor E5205	BX80573E5205P <i>(2U passive heatsink)</i>	1.86 GHz	1066 MHz	6 MB	2 / 2	65 W	7 35858 19911 7
	BX80573E5205A <i>(active or 1U heatsink)</i>	1.86 GHz	1066 MHz	6 MB	2 / 2	65 W	7 35858 19910 0

MULTI-CORE INTEL® XEON® PROCESSOR 7000 SEQUENCE FOR SERVER SYSTEMS FEATURING UP TO FOUR MPGA604 SOCKETS

PROCESSOR NAME	PRODUCT CODE	CLOCK SPEED	FRONT SIDE BUS	CACHE	NO. OF CORES / THREADS	POWER	UPC CODE
Intel® Xeon® Processor X7460	BX80582X7460	2.67 GHz	1066 MHz	16 MB L3	6 / 6	130 W	7 35858 20355 5
Intel Xeon Processor L7455	AD80582JH046003 <i>(tray only)</i>	2.13 GHz	1066 MHz	12 MB L3	6 / 6	50 W	
Intel Xeon Processor E7450	BX80582E7450	2.40 GHz	1066 MHz	12 MB L3	6 / 6	90 W	7 35858 20356 2
Intel Xeon Processor L7445	AD80583JH046003 <i>(tray only)</i>	2.13 GHz	1066 MHz	12 MB L3	4 / 4	50 W	
Intel Xeon Processor E7440	BX80583E7440	2.40 GHz	1066 MHz	16 MB L3	4 / 4	90 W	7 35858 20357 9
Intel Xeon Processor E7430	AD80583QH046003 <i>(tray only)</i>	2.13 GHz	1066 MHz	12 MB L3	4 / 4	90 W	
Intel Xeon Processor E7420	BX80583E7420	2.13 GHz	1066 MHz	8 MB L3	4 / 4	90 W	7 35858 20358 6
Intel Xeon Processor X7350	BX80565X7350	2.93 GHz	1066 MHz	8 MB	4 / 4	130 W	7 35858 19665 9
Intel Xeon Processor E7340	BX80565E7340	2.40 GHz	1066 MHz	8 MB	4 / 4	80 W	7 35858 19666 6
Intel Xeon Processor E7330	BX80565E7330	2.40 GHz	1066 MHz	6 MB	4 / 4	80 W	7 35858 19667 3
Intel Xeon Processor E7320	BX80565E7320	2.13 GHz	1066 MHz	4 MB	4 / 4	80 W	7 35858 19668 0
Intel Xeon Processor E7310	BX80565E7310	1.60 GHz	1066 MHz	4 MB	4 / 4	80 W	7 35858 19669 7
Intel Xeon Processor L7345	LF80565JH0368M <i>(tray only)</i>	1.86 GHz	1066 MHz	8 MB	4 / 4	50 W	
Intel Xeon Processor E7220	LF80564QH0778M <i>(tray only)</i>	2.93 GHz	1066 MHz	8 MB	2 / 2	80 W	
Intel Xeon Processor E7210	LF80564QH0568M <i>(tray only)</i>	2.40 GHz	1066 MHz	8 MB	2 / 2	80 W	

¹ Intel® QPI-Intel® QuickPath Interconnect; GT/s-Gigatransfers per second.

² Intel® Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support HT Technology, see www.intel.com/info/hyperthreading.

³ Intel® Turbo Boost Technology requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost for more information.

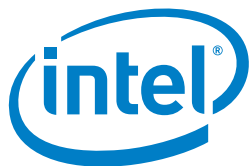
⁴ Contact your chassis supplier for compatibility details.

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® SERVER BOARDS



Photo not available



Boards	Intel® Server Board S5520HC	Intel® Server Board S5500HCV	Intel® Server Board S5500BC
	<i>A pedestal-optimized server product family designed with world-class performance, scalable management, and maximum expandability for small and medium business applications</i>	<i>A pedestal-optimized server product family designed with enterprise-class performance, scalable management, and good expandability for small and medium business applications</i>	<i>An entry-level family of rack- and pedestal-optimized server products designed for business-class performance and quality for small and medium business applications.</i>
Order Code	S5520HC	S5500HCV	S5500BC
Intel® Server Chassis Support	Intel® Server Chassis SC5600 Family Intel® Server Chassis SC5650 Family	Intel® Server Chassis SC5600 Family Intel® Server Chassis SC5650 Family	Pedestal: Intel® Server Chassis SC5650 Family 1U Rack: Intel® Server System SR1630BC
Processor Support¹	Intel® Xeon® 5500 series processors	Intel® Xeon® 5500 series processors	Intel® Xeon® 5500 series processors
Number of Processors Supported	1 or 2	1 or 2	1 or 2
Intel® QPI (GT/s)² / System Bus Speed (MHz)	6.40 GT/s / 5.86 GT/s / 4.80 GT/s	6.40 GT/s / 5.86 GT/s / 4.80 GT/s	6.40 GT/s / 5.86 GT/s / 4.80 GT/s
Chipset	Intel® 5520 Chipset with ICH10R	Intel® 5500 Chipset with ICH10R	Intel® 5500 Chipset with ICH10R
Total Slots	6	5	5
Slot Types	1 x PCI Express* 2.0 x8 (x16 mechanical) 3 x PCI Express 2.0 (x8 mechanical) 1 x PCI Express 2.0 x4 (x8 mechanical shared with Intel® 4-port SAS I/O module) 1 x PCI 32/33 5V	2 x PCI Express* 2.0 x8 (x8 mechanical) 1 x PCI Express 2.0 x4 (x8 mechanical) 1 x PCI Express x4 (x8 mechanical shared with Intel® 4-port SAS I/O module) 1 x PCI 32/33 5V	Pedestal: 2 x half-length PCI Express* 2.0 x8 (x8 mechanical) 1 x half-length PCI Express 2.0 x4 (x8 mechanical) 1 x half-length PCI Express x4 1 x half-length PCI 32/33 5V Rack: 1 x low-profile, half-length PCI Express 2.0 x8 riser in slot 6
Memory Capacity	12 x DDR3 memory DIMMs through 6 memory channels	9 x DDR3 memory DIMMs through 6 memory channels	8 x DDR3 memory DIMMs through 4 memory channels
Integrated Serial ATA	6-port SATA (3 Gb/s) via ICH10R	6-port SATA (3 Gb/s) via ICH10R	6-port SATA ports (3 Gb/s) via ICH10R
Integrated Active SAS Controller	Modular SAS RAID solution via Intel® I/O Expansion Module options	Modular SAS RAID solution via Intel® I/O Expansion Module options	Not available
Integrated LAN	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology	Embedded Intel® Dual-Gigabit Controllers 82574L and 82567LM
Integrated Graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Integrated baseboard management controller with IPMI 2.0 support and option for KVM and virtual media redirection with dedicated NIC via Intel® Remote Management Module (RMM3)	Integrated baseboard management controller with IPMI 2.0 support and option for KVM and virtual media redirection with dedicated NIC via Intel® Remote Management Module (RMM3)	Integrated baseboard management controller with IPMI 2.0 support and option for KVM and virtual media redirection with dedicated NIC via Intel® Remote Management Module (RMM3)
Intel® RAID Support	Integrated SATA: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key	Integrated SATA: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key	Integrated SATA: Intel® Embedded Server RAID Technology with software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key

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



**Intel® Server Board
S5520SC**

A workstation-optimized product family designed with world-class performance and flexible expandability for graphics-intensive applications.



**Intel® Server Board
S5520UR**

Rack-optimized, highly integrated server systems for high-density, energy-efficient applications



**Intel® Server Board
S5500WB**

Power- and cooling-optimized rack mount server board for meeting demanding data-center performance requirements

Boards	Intel® Server Board S5520SC	Intel® Server Board S5520UR	Intel® Server Board S5500WB
Order Code	S5520SC	S5520UR	S5500WB
Intel® Server Chassis Support	Intel® Server Chassis SC5600BASE Intel® Server Chassis SC5650WS	Intel® Server System SR1600UR Intel® Server System SR1625UR Intel® Server System SR2600UR Intel® Server System SR2625UR	Third-party
Processor Support¹	Intel® Xeon® 5500 series processors	Intel® Xeon® 5500 series processors	Intel® Xeon® 5500 series processors
Number of Processors Supported	1 or 2	1 or 2	1 or 2
Intel® QPI (GT/s)² / System Bus Speed (MHz)	6.40 GT/s / 5.86 GT/s / 4.80 GT/s	6.40 GT/s / 5.86 GT/s / 4.80 GT/s	6.40 GT/s / 5.86 GT/s / 4.80 GT/s
Chipset	Intel® 5520 Chipset with ICH10R	Intel® 5520 Chipset with ICH10R	Intel® 5500 Chipset with ICH10R
Total Slots	5	1U: 1 2U: Up to 5	Up to 2, plus 1 via Intel® I/O Expansion Module (<i>chassis dependent</i>)
Slot Types	2 x PCI Express* 2.0 x16 (<i>x16 mechanical</i>) 1 x PCI Express 2.0 x4 (<i>x8 mechanical shared with Intel® 4-port SAS I/O module</i>) 1 x PCI Express x1 (<i>x4 mechanical</i>) 1 x PCI 32/33 5V	1 x PCI Express* 2.0 x8 via Intel® I/O Expansion Module 1 x PCI Express x4 via bridge board connector to HW SAS RAID controller on Midplane 2 1U: 1 x PCI Express 2.0 x16 (<i>x16 mechanical via riser</i>) 2U: Three riser options available: 3 x full-height PCI Express 2.0 x8 and 2 x low-profile PCI Express 2.0 x8 3 x full-height PCI Express 2.0 x8 3 x full-height PCI Express 2.0 x8, 2 x low-profile PCI Express 2.0 x8 and 2 x full-height PCI-X 133 MHz	1 x PCI Express* 2.0 x8 in slot 6 (<i>x16 mechanical</i>) 1 x PCI Express 2.0 x4 in slot 1 (<i>x8 mechanical</i>) Intel® I/O Expansion Module—PCI Express 2.0 x8 (<i>GbE, 10 GbE, SAS, and InfiniBand* options</i>)
Memory Capacity	12 x DDR3 memory DIMMs through 6 memory channels	12 x DDR3 memory DIMM slots through 6 memory channels	8 x DDR3 memory DIMM slots through 6 memory channels
Integrated Serial ATA	6-port SATA (<i>3 Gb/s</i>) via ICH10R	6-port SATA (<i>3 Gb/s</i>) via ICH10R	6-ports SATA (<i>3 Gb/s</i>) via ICH10R
Integrated Active SAS Controller	Modular SAS RAID solution via Intel® I/O Expansion Module options	Optional SAS/SATA RAID solution via Intel® Integrated Server RAID system boards	Optional via Intel® I/O Expansion Modules: 4-port internal SAS, 4-port internal SAS HW RAID
Integrated LAN	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology	Embedded Intel® Dual-Gigabit Controller 82576EB with Intel® Virtualization Technology
Integrated Graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Integrated baseboard management controller with IPMI 2.0 support and option for KVM and virtual media redirection with dedicated NIC via Intel® Remote Management Module (<i>RMM3</i>)	Integrated baseboard management controller with IPMI 2.0 support and option for KVM and virtual media redirection with dedicated NIC via Intel® Remote Management Module (<i>RMM3</i>)	Support for the new simplified Data Center Management Interface (<i>DCMI</i>), IPMI 2.0, and Intel® Intelligent Power Node Manager Optional Intel® Remote Management Module (<i>RMM3</i>)
Intel® RAID Support	Integrated SATA: Intel® Embedded Server RAID Technology with software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key	Integrated SATA: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key Optional SAS: Intel® Integrated Server RAID system boards with RAID 0, 1, 1E, 5, and 6 plus spans (<i>10, 50, and 60</i>) offer value above a traditional add-in card	Integrated SATA: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key



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	S5000PSLROMBR⁴	S5000PSLSASR⁴
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
Intel® QPI (GT/s) ² / System Bus Speed (MHz)	1600 MHz ³ / 1333 MHz / 1066 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 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 Optional Intel® I/O Expansion Module (Ext 4-port SAS; Dual GigE; IB)	3 x PCI Express* x8 1 x PCI Express x4 (x8 mechanical) 2 x PCI-X 64-bit 100/133 MHz	2 x PCI Express* x8 2 x PCI Express x4 (x8 mechanical) 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, and 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
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 3.0 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)
	<i>High-performance server board for maximum reliability and manageability</i>	<i>High-performance dual processor workstation board</i>	<i>High-performance dual processor workstation board</i>
Order Code	S5000PSLSATAR⁴	S5000XVNSASR⁴	S5000XVNSATAR⁴
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
Intel® QPI (GT/s) ² / System Bus Speed (MHz)	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 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 (<i>x8 mechanical</i>) 2 x PCI-X 64-bit 100/133 MHz	1 x PCI Express* x16 2 x PCI Express x4 (<i>x8 mechanical</i>) 2 x PCI-X 64-bit 100/133 MHz	1 x PCI Express* x16 1 x PCI Express x8 1 x PCI Express x4 (<i>x8 mechanical</i>) 2 x PCI-X 64-bit 100/133 MHz
Memory Capacity	32 GB ECC FBDIMMs (<i>8 DIMMs</i>)	32 GB ECC FBDIMMs (<i>8 DIMMs</i>)	32 GB ECC FBDIMMs (<i>8 DIMMs</i>)
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 (<i>3.0 Gb/s</i>) with RAID 0, 1, and 10	6-port SATA (<i>3.0 Gb/s</i>) 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
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (<i>AXXRM2</i>)	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 3.0 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)
	<i>Entry server board for small and medium businesses</i>	<i>Entry server board for small and medium businesses</i>	<i>Entry server board for small and medium businesses</i>
Order Code	S5000VSAATAR⁴	S5000VSA SCSI⁴	S5000VSA4DIMMR⁴
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
Processor Support¹	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
Number of Processors Supported	2	2	2
Intel® QPI (GT/s)² / System Bus Speed (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 Server Chipset	Intel® 5000V Server Chipset	Intel® 5000V Server Chipset
Independent PCI Buses	4	4	4
Total Slots	5	5	5
Slot Types	2 x PCI Express* x4 (x8 mechanical) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 (x8 mechanical) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	2 x PCI Express* x4 (x8 mechanical) 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)
Integrated SCSI	Not available	Single Channel SCSI Add-in Card at 133 MHz	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	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
Integrated Active SAS Controller	Not available	Not available	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	ATI* with 16 MB memory	ATI* with 16 MB memory
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 3.0 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 (SAS)	Intel® Server Board S5000PAL	Intel® Entry Server Board S3000AHLX
	<i>Entry server board for small and medium businesses</i>	<i>Outstanding performance, dependability, and manageability for high-density solutions</i>	<i>Entry server board with essential server-class features</i>
Order Code	S5000VSASASR⁴	S5000PALR⁴	S3000AHLX
Intel® Server Chassis Support	Intel® Entry Server Chassis SC5299DP Intel® Entry Server Chassis SC5299BRP Intel® Entry Server System SR2520SAXS	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
Processor Support¹	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Intel® Xeon® 3200 series, Intel® Pentium®, and Intel® Celeron® processors
Number of Processors Supported	2	2	1
Intel® QPI (GT/s)² / System Bus Speed (MHz)	1333 MHz ⁵ / 1066 MHz / 667 MHz	1333 MHz ⁵ / 800 MHz / 667 MHz	1066 MHz / 800 MHz / 533 MHz
Chipset	Intel® 5000V Server Chipset	Intel® 5000P Chipset	Intel® 3000 Server Chipset
Independent PCI Buses	4	4	6
Total Slots	5	1U: 2 2U: 5	5
Slot Types	2 x PCI Express* x4 (x8 mechanical) 2 x PCI-X 64 MHz/133 MHz 1 x PCI 32-bit/33 MHz	PCI adapter cards are supported in the PCI-X and PCI Express* formats and accessed through two riser slots: 1U: Up to 2 adapter card slots 2U: Up to 5 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
Memory Capacity	16 GB ECC FBDIMMs (8 DIMMs)	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)
Integrated SCSI	Not available	Not available	Not available
Integrated ATA	1 channel supporting up to 2 IDE devices	1 channel supporting 1 IDE-100 Optical Drive	1 channel supporting up to 2 IDE devices
Integrated Serial ATA	2-port SATA (3.0 Gb/s) with RAID 0, 1, and 10	Enhanced SATA provides 6-ports and RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	4-port SATA (3.0 Gb/s)
Integrated Active SAS Controller	4-port SAS with Intel® Embedded Server RAID Technology II providing RAID 0, 1, 10, and optional AXXRAKSW5 for RAID 5	Not available	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	ATI* with 16 MB memory	ATI* with 16 MB memory
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® Server Essentials 3.0
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 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® Entry Server Board S3000AH	Intel® Entry Server Board S3000AHV	Intel® Server Board X38ML
	<i>Entry server board with essential server-class features</i>	<i>Entry server board with essential server-class features</i>	<i>Small form factor server board for high-performance and high-density computing</i>
Order Code	S3000AHL	S3000AHV	X38ML
Intel® Server Chassis and Platform Support	Intel® Server Chassis SC5295UP Intel® Server System SR1530AH	Intel® Server Chassis SC5295UP	Intel® Server System SR1520ML
Processor Support ¹	Intel® Xeon® 3200 series, Intel® Pentium®, and Intel® Celeron® processors	Intel® Xeon® 3200 series, Intel® Pentium, and Intel® Celeron® processors	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
Intel® QPI (GT/s) ² / System Bus Speed (MHz)	1066 MHz / 800 MHz / 533 MHz	1066 MHz / 800 MHz / 533 MHz	1333 MHz ⁵ / 1066 MHz / 800 MHz
Chipset	Intel® 3000 Server Chipset	Intel® 3000 Server Chipset	Intel® X38 Express Chipset
Independent PCI Buses	5	4	1
Total Slots	5	4	1
Slot Types	1 x PCI Express* x8 1 x PCI Express x4 1 x PCI Express x1 2 x PCI 32-bit/33 MHz	1 x PCI Express* x8 1 x PCI Express x4 2 x PCI 32-bit/33 MHz	1 x PCI Express* 2.0 x16
Memory Capacity	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 (8 GB Max)	Dual memory-channel, four DIMM slots for DDR2 667/800 Unbuffered ECC/non-ECC DIMMs (8 GB Max)
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	Not available
Integrated Serial ATA	4-port SATA (3.0 Gb/s)	4-port SATA (3.0 Gb/s)	4-port SATA (3.0 Gb/s)
Integrated Active SAS Controller	Not available	Not available	Not available
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	1 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ATI* with 16 MB memory	ATI* with 16 MB memory	ServerEngines* iBMC
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Intel® Server Essentials 3.0	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 3.0 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



Boards	Intel® Entry Server Board S3210SHLX	Intel® Entry Server Board S3210SHLC	Intel® Entry Server Board S3200SHV
	<i>Entry server board with essential server-class features</i>	<i>Essential server features for entry-level applications</i>	<i>Essential server features for entry-level applications</i>
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®, Quad-Core Intel® Xeon® 3300 series, and Dual-Core Intel® Xeon® 3100 series processors	Intel® Xeon® 3200 and 3000 series, Intel® Pentium®, Quad-Core Intel® Xeon® 3300 series, and Dual-Core Intel® Xeon® 3100 series processors	Intel® Xeon® 3200 and 3000 series, Intel® Pentium®, Quad-Core Intel® Xeon® 3300 Series, and Dual-Core Intel® Xeon® 3100 series processors
Number of Processors Supported	1	1	1
Intel® QPI (GT/s) ² / System Bus Speed (MHz)	1333 MHz ⁵ / 1066 MHz / 800 MHz	1333 MHz ⁵ / 1066 MHz / 800 MHz	1333 MHz ⁵ / 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 (x16 mechanical) 1 x PCI Express x8 (x8 mechanical) 2 x PCI-X 64/133MHz 1 x PCI 32/33 (5V)	1 x PCI Express* x16 (x16 mechanical) 1 x PCI Express x8 (x8 mechanical) 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 (8 GB Max)	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 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 Active SAS Controller	Not available	Not available	Not available
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
System Management Software	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Server Management Support	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® Server Essentials 3.0 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.

² Intel® QPI—Intel® QuickPath Interconnect; GT/s—Gigatransfers per second.

³ 1600 MHz support may require updates that may not be available at launch.

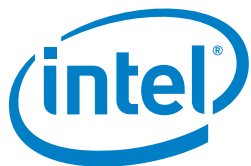
⁴ Order codes ending in "R" designate refreshed products that now support the new generation of 45nm processors. Please see the supported processor page for each product on support.intel.com for a full list of supported processors.

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

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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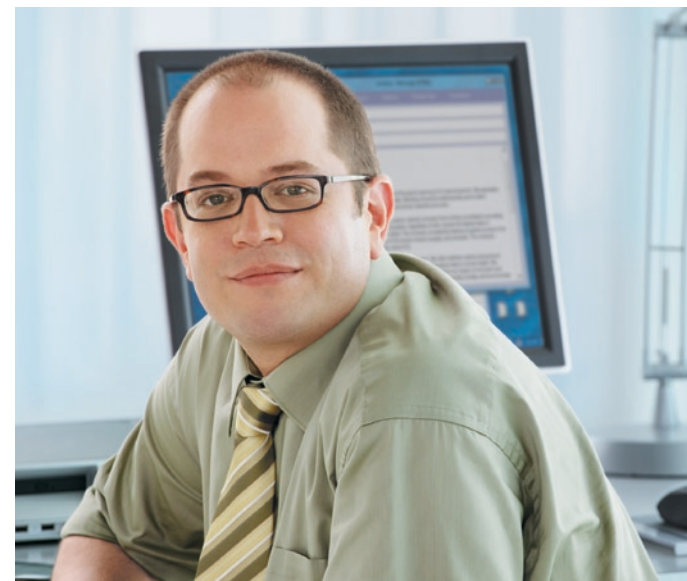
Intel® Server Essentials

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 (CD)**

With Intel® Deployment Assistant and other system utilities and drivers

- **Intel® System Management Software (DVD)**

With Intel® Management Packs, Intel® Active System Console, and other system utilities

- **Intel® Remote Management Module**

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

Each Intel® server board ships with the Intel® Server Deployment Toolkit 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

Wizard-based user interface

Automatic detection of server configuration and components

Load configuration profiles for identical servers

Wizard-guided RAID configuration

Automatic detection of available software updates

Unattended OS installation

BENEFITS

Reduces complexity while providing comprehensive guidance in the deployment of Intel® servers.

Eliminates steps and saves time by detecting key configuration information including BIOS, LAN, and server management settings, and updating your system.

Reduces redundant tasks by saving and loading configuration settings from one server to identical servers.

Configures RAID from a single console with simple step-by-step instructions.

Minimizes uncertainty by automatically locating the latest drivers, firmware, and BIOS from the Internet, corporate network, or USB sources.

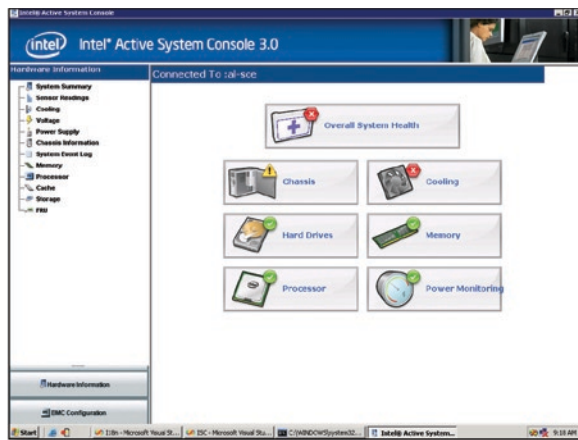
Saves time—simply answer configuration questions, choose the drivers to include, and pop in the operating system CD.

Simplify with Intel® System Management Software

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. Intel® System Management Software 3.1 is a comprehensive software suite with tools for all market segments and system management needs. It is designed to ease management of the entire IT environment through a single, unified console. Included with this powerful set of applications are the Intel® Management Packs which integrate seamlessly into Microsoft® System Center Essentials 2007 (Essentials 2007) or Microsoft® System Center Operations Manager. Essentials 2007 is 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 also comes with Intel® Active System Console, a lightweight, easy to install and use product to manage your server hardware health. This product allows users to quickly see the overall health of their server hardware, view critical or warning events that require their attention, and configure the Baseboard Management Controller (BMC) for remote power control and access to a system where the OS has become unreachable.

Intel® Active System Console

Intel Active System Console is a lightweight walkup console for customers who do not need all the features and functionality of System Center Essentials. The application is both easy to install and use. This console will provide basic monitoring capabilities including server health and BMC configuration. If for any reason your server hardware should experience a warning or critical event, the application will send you an immediate e-mail and provide an event viewer with a full explanation of the problem. This console also runs under a web server which means you can access the server from anywhere on your network to check hardware health or perform BMC configuration.



Microsoft* System Center Essentials 2007

With Microsoft* System Center 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

System Center Essentials just got better and faster: Service Pack 1 improvements include up to 70 percent less memory consumption, faster console, support for workgroup-joined computers, SNMPv1 devices, improved setup, new update approval rules, enhanced third-party update experience, and support for Windows* Server 2008.

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 Packs

Intel® Management Packs are hardware management packs for Intel servers and clients. Intel has three management packs:

- Intel® Server Management Pack for hardware monitoring, power control, and other hardware tasks on Intel® server boards.
- Intel® Modular Server Management Pack for hardware monitoring of the Intel® Modular Server and launch points to the Intel® Modular Server Control web server.
- Intel® AMT Management Pack for hardware monitoring and control of Intel® vPro™ or Intel® Centrino® with vPro™ technology desktops and laptops.

Combined, these management packs enable administrators to efficiently monitor Intel® chassis and baseboard sensors including temperature, fan status, and voltage levels through an integrated management console. It allows for full power control on these systems as well as viewing the text console redirection as the system powers on. For servers it will also monitor the LSI* RAID solution. It works seamlessly with Microsoft System Center Essentials 2007 providing the best possible monitoring of overall system health using the technical details that help keep the server hardware healthy and stable.

Intel® Standalone Utilities

Intel® Standalone Utilities are utilities designed to integrate into enterprise management consoles. The utilities include:

- SNMP-SA is an SNMP agent that runs under Windows* or Linux* and integrates into most enterprise management consoles or third-party SNMP viewers.
- CLI is a command line interface application that runs under Windows or Linux to allow users remote (out-of-band) access to the server hardware. It is easily scriptable to allow administrators to perform tasks or read critical hardware information in large groups of servers at one time.

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 Microsoft* System Center Essentials 2007 allowing users to manage anywhere from 5 to 30 servers and 15 to 500 clients. Add licenses to the 90-day trial version that ships with the Intel® server boards and systems to meet your specific needs.

EDITION	DESCRIPTION	AVAILABLE FROM	ORDER INFORMATION
90-day Trial Version	Microsoft* System Center Essentials 2007 90-day trial version supporting 10 servers and 50 clients	Shipped exclusively with Intel® server boards and systems	Ships with Intel server boards and systems 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 90-day trial version	From Intel or authorized resellers and OEMs	SMS2SSE2SNE Upgrade from 90-day trial version to Small Network Edition
Standard Edition Upgrade	Adds 10 server and 50 client management licenses to the 90-day trial version and can be scaled to manage up to 30 servers and 500 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 90-day trial version to Standard Edition
Client Management License	Adds client management licenses in either 5 or 20 increments	From Intel or authorized resellers and OEMs	SMS2CAL5C Microsoft System Center Essentials 2007 Client Management License (5 Pack) SMS2CAL20C Microsoft System Center Essentials 2007 Client Management License (20 Pack)
Server Management License	Adds server management licenses 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

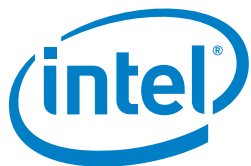


For more information, visit the Intel Web site at: www.intel.com/go/serveressentials

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, the Intel logo, Centrino, and Intel vPro are trademarks of Intel Corporation in the U.S. and other countries.

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

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INTEL® SERVER CHASSIS



Intel® Server Chassis
SC5600

Chassis	Base	BRP	LX
Configuration	Base	BRP	LX
Chassis Order Code¹	SC5600BASE SC5600BASENA	SC5600BRP SC5600BRPNA	SC5600LX SC5600LXNA
Spares Kit Order Code	Maintenance kit: FRIGTPMKIT	Maintenance kit: FRIGTPMKIT	Maintenance kit: FRIGTPMKIT
Form Factor	Pedestal, convertible to 5U Rack	Pedestal, convertible to 5U Rack	Pedestal, convertible to 5U Rack
Intel® Server Board Support²	Intel® Server Boards S5520HC and S5500HCV Intel® Workstation Board S5520SC	Intel® Server Boards S5520HC and S5500HCV	Intel® Server Boards S5520HC and S5500HCV
Drive Bays	Support for up to six 3.5" fixed or hot-swap SAS/SATA drives	Support for up to ten 3.5" fixed or hot-swap SAS/SATA drives	Support for up to ten 3.5" fixed or hot-swap SAS/SATA drives
Hot-Swap Disk Drive Bay: Order Code	Up to ten hot-swap drive bays are possible with the combination of the following drive bay upgrade kits: 6-drive SAS/SATA—AXX4DRV3GR 6-drive SAS/SATA Expander—AXX6DRV3GR 4-drive SAS/SATA—AXX6DRV3GEXP 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—AXX4DRV3GR 6-drive SAS/SATA Expander—AXX6DRV3GR 4-drive SAS/SATA—AXX6DRV3GEXP 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—AXX4DRV3GR 6-drive SAS/SATA Expander—AXX6DRV3GR 4-drive SAS/SATA—AXX6DRV3GEXP 4-drive SAS/SATA Expander—AXX4DRV3GEXP
System Cooling	Three fixed, non-redundant chassis fans: two 120mm and one 92mm	Three fixed, non-redundant chassis fans: two 120mm and one 92mm	Four tool-less, hot-swappable and redundant chassis fans with handle mounted diagnostic failure LEDs: two 120mm and two 92mm
Power Supply	Non-redundant 670 W PFC power supply with integrated cooling fan	Redundant 1+1 high-efficiency 750 W PFC power supply with integrated cooling fan	Redundant 1+1 high-efficiency 750 W PFC power supply with integrated cooling fan
Tool-less Features	Installation and removal of fans, fixed and hot-swap hard drives, fixed and hot-swap drive bays, PCI cards, hot-swap PSU modules, fixed PSU, floppy drives, and CD/DVD ROM drives	Installation and removal of fans, fixed and hot-swap hard drives, fixed and hot-swap drive bays, PCI cards, hot-swap PSU modules, fixed PSU, floppy drives, and CD/DVD ROM drives	Installation and removal of fans, fixed and hot-swap hard drives, fixed and hot-swap drive bays, PCI cards, hot-swap PSU modules, fixed PSU, floppy drives, and CD/DVD ROM drives
Dimensions (H x W x D)	Rack: 8.6" (218mm) x 16.6" (422mm) x 27.4" (696mm) Pedestal: 17" (432mm) x 8.6" (218mm) x 28.4" (721mm)	Rack: 8.6" (218mm) x 16.6" (422mm) x 27.4" (696mm) Pedestal: 17" (432mm) x 8.6" (218mm) x 28.4" (721mm)	Rack: 8.6" (218mm) x 16.6" (422mm) x 27.4" (696mm) Pedestal: 17" (432mm) x 8.6" (218mm) x 28.4" (721mm)
Bezel Features	Black, security lock, control panel controls and indicators, three tool-less 5.25" peripheral drive bays, internal hard drive bay cage (behind door), security lock, USB ports	Black, security lock, control panel controls and indicators, three tool-less 5.25" peripheral drive bays, internal hard drive bay cage (behind door), security lock, USB ports	Black, security lock, control panel controls and indicators, three tool-less 5.25" peripheral drive bays, internal hard drive bay cage (behind door), security lock, USB ports
Front Connectors	2 x USB 1 x Optional front or rear mounted serial port	2 x USB 1 x Optional front or rear mounted serial port	2 x USB 1 x Optional front or rear mounted serial port

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



Intel® Server Chassis
SC5650

Chassis	Intel® Server Chassis SC5650		
Configuration	Base	BRP	WS
Chassis Order Code¹	SC5650DP SC5650DPNA	SC5650BRP SC5650BRPNA	SC5650WS SC5650WSNA
Spares Kit Order Code	Maintenance kit: FPPTPMKIT	Maintenance kit: FPPTPMKIT	Maintenance kit: FPPTPMKIT
Form Factor	Pedestal, convertible to 6U Rack	Pedestal, convertible to 6U Rack	Pedestal, convertible to 6U Rack
Intel® Server Board Support²	Intel® Server Boards S5500BC, S5520HC, and S5500HCV	Intel® Server Boards S5500BC, S5520HC, and S5500HCV	Intel® Workstation Board S5520SC
Drive Bays	Support for up to six 3.5" fixed or hot-swap SAS/SATA drives	Support for up to six 3.5" fixed or hot-swap SAS/SATA drives	Support for up to six 3.5" fixed or hot-swap SAS/SATA drives
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—AXX6DRV3GR 6-drive SAS/SATA Expander—AXX6DRV3GEXP	Up to six hot-swap drive bays via the following hot-swap disk drive bay upgrade kits: 6-drive SAS/SATA—AXX6DRV3GR 6-drive SAS/SATA Expander—AXX6DRV3GEXP	Up to six hot-swap drive bays via the following hot-swap disk drive bay upgrade kits: 6-drive SAS/SATA—AXX6DRV3GR 6-drive SAS/SATA Expander—AXX6DRV3GEXP
System Cooling	Three non-redundant cooling fans: one 120mm chassis fan, one 120mm PCI fan, and one 92mm drive bay fan	Three non-redundant cooling fans: one 120mm chassis fan, one 120mm PCI fan, and one 92mm drive bay fan	Three non-redundant cooling fans: one 120mm chassis fan, one 120mm PCI fan, and one 92mm drive bay fan
Power Supply	Non-redundant 600 W PFC power supply with integrated cooling fan	Redundant 1+0 high-efficiency 600 W PFC power supply with integrated cooling fan One additional 600 W PSU can be added for redundancy	Non-redundant 1000 W high-efficiency PFC power supply with integrated cooling fan
Tool-less Features	Installation and removal of fans, fixed and hot-swap hard drives, fixed and hot-swap drive bays, PCI cards, hot-swap PSU modules, fixed PSU, floppy drives, and CD/DVD ROM drives	Installation and removal of fans, fixed and hot-swap hard drives, fixed and hot-swap drive bays, PCI cards, hot-swap PSU modules, fixed PSU, floppy drives, and CD/DVD ROM drives	Installation and removal of fans, fixed and hot-swap hard drives, fixed and hot-swap drive bays, PCI cards, hot-swap PSU modules, fixed PSU, floppy drives, and CD/DVD ROM drives
Dimensions (H x W x D)	Pedestal: 17.8" (452mm) x 9.256" (235mm) x 19" (483mm) Rack: 9.256" (235mm) x 17.6" (447mm) x 19" (483mm)	Pedestal: 17.8" (452mm) x 9.256" (235mm) x 19" (483mm) Rack: 9.256" (235mm) x 17.6" (447mm) x 19" (483mm)	Pedestal: 17.8" (452mm) x 9.256" (235mm) x 19" (483mm) Rack: 9.256" (235mm) x 17.6" (447mm) x 19" (483mm)
Bezel Features	Black, control panel controls and indicators, two half-height 5.25" peripheral drive bays, internal hard drive bay cage (<i>behind door</i>), security lock, USB ports	Black, control panel controls and indicators, two half-height 5.25" peripheral drive bays, internal hard drive bay cage (<i>behind door</i>), security lock, USB ports	Black, control panel controls and indicators, two half-height 5.25" peripheral drive bays, internal hard drive bay cage (<i>behind door</i>), security lock, USB ports
Front Connectors	2 x USB	2 x USB	2 x USB



**Intel® Server Chassis
SC5400**

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

Configuration	Base	BRP	LX	LXI
Chassis Order Code¹	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 <i>(Requires rack conversion kit ARIGRACK)</i>	Pedestal or 5U Rack <i>(Requires rack conversion kit ARIGRACK)</i>	Pedestal or 5U Rack <i>(Requires rack conversion kit ARIGRACK)</i>	Pedestal or 5U Rack <i>(Requires rack conversion kit ARIGRACK)</i>
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—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—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 W PFC	830 W dual-line cord, 1+1 PFC	830 W dual-line cord, 1+1 PFC	830 W dual-line cord, 1+1 PFC <i>(Two included in the chassis)</i>
Redundant Power Capable	Yes <i>(via upgrade kit)</i>	Yes <i>(fully redundant configuration requires second power module FXX830WPSU)</i>	Yes <i>(fully redundant configuration requires second power module FXX830WPSU)</i>	Yes, second fully redundant power supply <i>(FXX830WPSU)</i> 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



**Intel® Server Chassis
SC5299-E**

A reliable, quiet, and flexible server chassis for entry-level server and workstation applications



**Intel® Server Chassis
SC5295-E**

A reliable and flexible server chassis for entry-level server and workstation applications

Chassis	Intel® Server Chassis SC5299-E				Intel® Server Chassis SC5295-E
	<i>A reliable, quiet, and flexible server chassis for entry-level server and workstation applications</i>				
	<i>A reliable and flexible server chassis for entry-level server and workstation applications</i>				
Configuration	WS	BRP	DP	UP	UP
Chassis Order Code¹	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 S3210SHLC, 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 W PFC	650 W 1+1 PFC	550 W PFC	420 W PFC	350 W 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: AXXLCPED	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPED	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPED	Lockable, Black	Lockable, Black, Support for Intel® Local Control Panel: AXXLCPED
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.

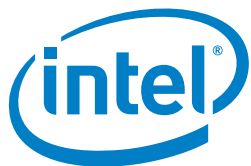
² Refer to <http://support.intel.com/support/motherboards/server> for up-to-date details on server boards supported by each chassis.

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® SERVER SYSTEMS



System	Intel® Server System SR1600UR	Intel® Server System SR2600UR
	<i>Rack-optimized, highly integrated server systems for high-density, energy-efficient applications</i>	<i>Rack-optimized, highly integrated server systems for high-density, energy-efficient applications</i>
Order Code ¹	SR1600UR SR1600URSHS	SR2600URBRP SR2600URLX
Components Included	<ul style="list-style-type: none"> Intel® Server Board S5520UR Intel® Server Chassis with specific configuration below: SR1600UR: Fan board in place of backplane, PCI Express* 2.0 riser with one full-height and full-length x16 slot, three cold-swap hard drive carriers SR1600URSHS: No backplane (<i>must be ordered separately</i>) PCI Express 2.0 riser with one full-height and full-length x16 slot, three hard drive carriers 	<ul style="list-style-type: none"> Intel® Server Board S5520UR Intel® Server Chassis with one power supply and specific configuration below: SR2600URBRP: Passive midplane, PCI Express* riser with three x8 slots, three system fans, five hard drive carriers SR2600URLX: Active midplane, PCI Express riser with five x8 slots, six hot-swap and redundant fans, five hard drive carriers
Number of Processors Supported	1 to 2	1 to 2
Processor Support ²	Intel® Xeon® 5500 series processors	Intel® Xeon® 5500 series processors
Intel® QPI (GT/s) ³ / System Bus Speed (MHz)	6.40 GT/s / 5.86 GT/s / 4.80 GT/s	6.40 GT/s / 5.86 GT/s / 4.80 GT/s
Chipset	Intel® 5520 Chipset with ICH10R	Intel® 5520 Chipset with ICH10R
Total Slots	1 + modules	Up to 5 + modules
Slot Types	1 x PCI Express 2.0 x16 slot via riser 1 x PCI Express 2.0 x8 bus via Intel® I/O Expansion Module	1 x PCI Express 2.0 x8 via Intel® I/O Expansion Module 1 x PCI Express 1.0 x4 via bridge board connector to HW SAS RAID controller on Midplane 2 SR2600URBRP: 3 x full-height PCI Express 2.0 x8 slots Optional riser: 1 x full-height PCI Express 2.0 x8, 2 x low-profile PCI Express 2.0 x8 slots, and 2 x full-height PCI-X 133 MHz SR2600URLX: 3 x full-height PCI Express 2.0 x8 slots and 2 x low-profile PCI Express 2.0 x8 slots via riser
Memory Capacity	12 x DDR3 memory DIMMs through 6 memory channels	12 x DDR3 memory DIMMs through 6 memory channels
Backplane	SR1600UR: Fan board only, HDDs are cabled SR1600URSHS: Active SAS/SATA or Passive SATA hot-swap backplane (<i>must be ordered separately</i>)	Hot-swap SAS/SATA backplane
Integrated LAN	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology
Integrated Graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics
Server Management Support	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Intel® RAID Controller Compatibility ⁴	Integrated: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key Optional SAS: Intel® Integrated Server RAID system boards with RAID 0, 1, 1E, 5, and 6 plus spans (10, 50, and 60) offer value above a traditional add-in card	Integrated: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key Optional SAS: Intel® Integrated Server RAID system boards with RAID 0, 1, 1E, 5, and 6 plus spans (10, 50, and 60) offer value above a traditional add-in card
Form Factor	1U Rack	2U Rack
Drive Bays	3 x 3.5" drive bays	6 x 3.5" drive bays Optional 2 x 2.5" fixed drive mounts
Thermal Solution	2 x passive thermal solutions included	2 x passive thermal solutions included
System Cooling	5 x non-redundant dual-rotor fans	SR2600URBRP—3 x non-redundant fans SR2600URLX—6 x redundant and hot-swap standard fans
Power Supply	600 W high-efficiency power supply	Up to two high-efficiency 750 W power supply modules supporting 1+0 or redundant 1+1 power configurations
Dimensions (H x W x D)	1.70" (43mm) x 16.93" (430mm) x 27.25" (692mm)	3.44" (87mm) x 16.93" (430mm) x 27.95" (710mm)

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



System	Intel® Server System SR2625UR	Intel® Server System SR1625UR	Intel® Server System SR1630BC
	<i>Rack-optimized, highly integrated server systems for high-density, energy-efficient applications</i>	<i>Rack-optimized, highly integrated server systems for high-density, energy-efficient applications</i>	<i>An entry-level family of rack-optimized server products designed for business-class performance and quality for small- to medium-sized business applications</i>
Order Code ¹	SR2625URBRP SR2625URLX	SR1625UR SR1625URSAS	SR1630BC
Components Included	<ul style="list-style-type: none"> Intel® Server Board S5520UR Intel® Server Chassis with one power supply and specific configuration below: SR2625URBRP: Passive midplane, PCI Express* riser with three x8 slots, six hard drive carriers SR2625URLX: Active midplane, PCI Express riser with five x8 slots, six hard drive carriers 	<ul style="list-style-type: none"> Intel® Server Board S5520UR Intel® Server Chassis with one power supply and specific configuration below: SR1625UR—Passive midplane, PCI Express* riser with one full-height and full-length x16 slot, six hard drive bays SR1625URSAS—Active midplane. PCI Express riser with one full-height and full-length x16 slot, six hard drive bays 	<ul style="list-style-type: none"> Intel® Server Board S5500BC (SATA) Intel® Server Chassis SR1630 400 W non-redundant high-efficiency power supply One low-profile PCI Express* riser card Slim-line CD-ROM bay Basic rail kit Pre-routed cables
Number of Processors Supported	1 to 2	1 to 2	1 to 2
Processor Support ²	Intel® Xeon® 5500 series processors	Intel® Xeon® 5500 series processors	Intel® Xeon® 5500 series processors
Intel® QPI (GT/s) ³ / System Bus Speed (MHz)	6.40 GT/s / 5.86 GT/s / 4.80 GT/s	6.40 GT/s / 5.86 GT/s / 4.80 GT/s	6.40 GT/s / 5.86 GT/s / 4.80 GT/s
Chipset	Intel® 5520 Chipset with ICH10R	Intel® 5520 Chipset with ICH10R	Intel® 5500 Chipset with ICH10R
Total Slots	Up to 5 + modules	1 + modules	1
Slot Types	1 x PCI Express 2.0 x8 via Intel® I/O Expansion Module 1 x PCI Express 1.0 x4 via bridge board connector to HW SAS RAID controller on Midplane 2 SR2625URBRP: 3 x full-height PCI Express 2.0 x8 slots Optional riser: 1 x full-height PCI Express 2.0 x8, 2 x low-profile PCI Express 2.0 x8 slots, and 2 x full-height PCI-X 133 MHz SR2625URLX: 3 x full-height PCI Express 2.0 x8 slots and 2 x low-profile PCI Express 2.0 x8 slots via riser	1 x PCI Express 2.0 x16 slot via riser 1 x PCI Express 2.0 x8 bus via Intel® I/O Expansion Module 1 x PCI Express 1.0 x4 via bridge board connector to HW SAS RAID controller on Midplane 2	1 x low-profile, half-length PCI Express 2.0 x8 through riser card in slot 6
Memory Capacity	12 x DDR3 memory DIMMs through 6 memory channels	12 x DDR3 memory DIMMs through 6 memory channels	8 x DDR3 memory DIMMs through 4 memory channels
Backplane	Hot-swap SAS/SATA backplane	Hot-swap SAS/SATA backplane	None
Integrated LAN	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology	Embedded Intel® Dual-Gigabit Controller 82575EB with Intel® Virtualization Technology	Embedded Intel® Dual-Gigabit Controllers 82574L and 82567LM
Integrated Graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics	Server Engine* LLC Pilot II* with 64 MB DDR2 memory, 8 MB allocated to graphics
Server Management Support	Intel® System Management Software 3.x	Intel® System Management Software 3.x	Intel® System Management Software 3.x
Intel® RAID Controller Compatibility ⁴	Integrated: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key Optional SAS: Intel® Integrated Server RAID system boards with RAID 0, 1, 1E, 5, and 6 plus spans (10, 50, and 60) offer value above a traditional add-in card	Integrated: Intel® Embedded Server RAID Technology with host-based software RAID levels 0, 1, and 10 Optional software RAID 5 with activation key Optional SAS: Intel® Integrated Server RAID system boards with RAID 0, 1, 1E, 5, and 6 plus spans (10, 50, and 60) offer value above a traditional add-in card	Integrated: Intel® Embedded Server RAID Technology with software RAID levels 0, 1, and 10 Optional support for software RAID 5 with activation key
Form Factor	2U Rack	1U Rack	1U Rack
Drive Bays	8 x 2.5" drive bays Optional 2 x 2.5" fixed drive mounts	8 x 2.5" drive bays	2 x fixed 3.5" SATA HDDs Optional slim-line optical drive
Thermal Solution	2 x passive thermal solutions included	2 x passive thermal solutions included	None (Uses 1U passive thermal solution (PC))
System Cooling	SR2625URBRP—3 x non-redundant fans SR2625URLX—6 x redundant and hot-swap standard fans	5 x non-redundant dual-rotor fans	2 x fixed cooling blowers with duct
Power Supply	Up to two high-efficiency 750 W power supply modules supporting 1+0 or redundant 1+1 power configurations	Up to two 650 W power supply modules supporting 1+0 or redundant 1+1 power configurations	400 W high-efficiency non-redundant power supply
Dimensions (H x W x D)	3.44" (87mm) x 16.93" (430mm) x 27.95" (710mm)	1.70" (43mm) x 16.93" (430mm) x 27.95" (710mm)	1.70" (43mm) x 16.90" (429mm) x 20.0" (508mm)



System	Intel® Server System SR1560SF	Intel® Server System SR1560SFHS	Intel® Server System SR1500AL
	<i>1U rack-optimized server system for high-performance and high-density computing</i>	<i>1U rack-optimized server system for high-performance and high-density computing</i>	<i>1U rack-optimized server system for flexible high-density server solutions</i>
Order Code¹	SR1560SF	SR1560SFHS	SR1500ALR
Components Included	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 Support²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
Intel® QPI (GT/s)³ / System Bus Speed (MHz)	1600 MHz ⁵ / 1333 MHz / 1066 MHz	1600 MHz ⁵ / 1333 MHz / 1066 MHz	1333 MHz ⁶ / 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 Optional Intel® I/O Expansion Module (Ext 4-port SAS; Dual Port GigE; IB)	1 x PCI Express 2.0 x16 Optional Intel® I/O Expansion Module (Ext 4-port SAS; Dual Port GigE; IB)	2 x PCI Express x8 Optional 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® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)
Intel® RAID Controller Compatibility (Order Code)⁴	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	5 x managed system fans 2 x power supply fans	5 x managed system fans 2 x power supply fans	5 x system fans
Power Supply	600 W high efficiency non-redundant PFC	600 W, non-redundant, high efficiency, PFC	600 W, 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)



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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 W power supplies 	<ul style="list-style-type: none"> 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 W 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
Intel® QPI (GT/s) ³ / System Bus Speed (MHz)	1333 MHz ⁶ / 1066 MHz / 667 MHz	1333 MHz ⁶ / 1066 MHz / 667 MHz	1333 MHz ⁶ / 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 1 x PCI-X 133 MHz plus Intel® I/O Expansion Module	2 x PCI Express x8 Optional 1 x PCI-X 133 MHz plus Intel® I/O Expansion Module	2 x PCI Express x8 Optional 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® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRM2)	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRM2)	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRM2)
Intel® RAID Controller Compatibility ⁴	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	5 x system fans	5 x system fans	5 x five system fans
Power Supply	600 W, non-redundant PFC	650 W, dual-line cord 1+1 PFC (fully redundant configuration requires second power module, order code ASR1550PS)	650 W, 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 Code¹	SR2500ALBRPR	SR2500ALLXR	SR1530AHLX SR1530AHLXNA
Components Included	<ul style="list-style-type: none"> 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 W power supplies 	<ul style="list-style-type: none"> 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 W power supplies 	<ul style="list-style-type: none"> Intel® Server Board S3000AHLX Intel® Server Chassis with 350 W power supply System fan and cooling blowers with duct Intel® 1U thermal solution Slim-line CD-ROM bay Basic rail kit Pre-routed cables
Number of Processors Supported	2	2	1
Processor Support²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon®, Intel® Pentium®, and Intel® Celeron® processors
Intel® QPI (GT/s)³ / System Bus Speed (MHz)	1333 MHz ⁶ / 1066 MHz / 667 MHz	1333 MHz ⁶ / 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 x 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 x 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 (8 GB Max)
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 AXXRK18E and AXXMINDIMM 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® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRMM2)	Intel® System Management Software 3.x Intel® Server Essentials 3.0
Intel® RAID Controller Compatibility⁴	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 (3.0 Gb/s) HDDs 1 x fixed slim-line CD-ROM
System Cooling	3 x system fans	Supports six system fans (redundant and hot-swappable)	2 x fixed cooling blowers with duct 1 x system fan
Power Supply	750 W, dual-line cord 1+1 PFC (Fully redundant configuration requires a second power module, order code ASR2500PS)	750 W, dual-line cord 1+1 PFC (Fully redundant configuration requires a second power module, order code ASR2500PS)	350 W 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
Order Code¹	SR1530AH SR1530AHNA	SR1530HAHLX SR1530HAHLXNA	SR1530CLR SR1530CLRNA
Components Included	<ul style="list-style-type: none"> Intel® Server Board S3000AH Intel® Server Chassis with 350 W power supply System fan and cooling blowers with duct Intel® 1U thermal solution Slim-line CD-ROM bay Basic rail kit Pre-routed cables 	<ul style="list-style-type: none"> Intel® Server Board S3000AHLX Intel® Server Chassis with 350 W power supply System cooling blowers with duct Intel® 1U thermal solution Slim-line CD-ROM bay Basic rail kit Pre-routed cables 	<ul style="list-style-type: none"> Intel® Server Board S5000VCLR (SATA) Intel® Server Chassis SR1530 400 W 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
Processor Support²	Multi-Core Intel® Xeon®, Intel® Pentium®, and Intel® Celeron® processors	Multi-Core Intel® Xeon®, Intel® Pentium®, and Intel® Celeron® processors	Multi-Core Intel® Xeon® processor
Intel® QPI (GT/s)³ / System Bus Speed (MHz)	1066 MHz / 800 MHz / 533 MHz	1066 MHz / 800 MHz / 533 MHz	1333 MHz ⁶ / 1066 MHz
Chipset	Intel® 3000 Server Chipset	Intel® 3000 Server Chipset	Intel® 5000V Chipset
PCI Buses	6	6	4
Total Slots	1	1	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
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)
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	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® System Management Software 3.x Intel® Server Essentials 3.0	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0
Intel® RAID Controller Compatibility⁴	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
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
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
Power Supply	350 W PFC power supply	350 W non-redundant	400 W 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)



System	Intel® Server System SR1530HCL	Intel® Server System SR1530HCLS	Intel® Server System SR2520SAF
Order Code¹	SR1530HCLR SR1530HCLRNA	SR1530HCLSR SR1530HCLSRNA	SR2520SAFR SR2520SAFRNA
Components Included	<ul style="list-style-type: none"> Intel® Server Board S5000VCLR (SAS) Intel® Server Chassis SR1530H 400 W non-redundant power supply One riser card supporting 2 PCI slots Slim-line CD-ROM bay Basic rail kit Pre-routed cables 	<ul style="list-style-type: none"> Intel® Server Board S5000VCLR (SAS) Intel® Server Chassis SR1530H 400 W non-redundant power supply One riser card supporting 2 PCI slots Slim-line CD-ROM bay Basic rail kit Pre-routed cables 	<ul style="list-style-type: none"> Intel® Server Board S5000VSAR (4 DIMMs) Intel® Server Chassis SR2520 600 W non-redundant power supply System fan with duct CD and HDD assemblies Pre-routed cables
Number of Processors Supported	2	2	2
Processor Support²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor
Intel® QPI (GT/s)³ / System Bus Speed (MHz)	1333 MHz ⁶ / 1066 MHz	1333 MHz ⁶ / 1066 MHz	1333 MHz ⁶ / 1066 MHz / 667 MHz
Chipset	Intel® 5000V Chipset	Intel® 5000V Chipset	Intel® 5000V Chipset
PCI Buses	4	4	4
Total Slots	2	2	5
Slot Types	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	2 x low-profile PCI Express* x4 (x8 mechanical) 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)	12 GB ECC Fully Buffered DDR2 (6 DIMMs)	8 GB ECC Fully Buffered DDR2 (8 DIMMs)
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	ATI* with 16 MB memory	ATI* with 16 MB memory	ATI* with 16 MB memory
Server Management Support	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0
Intel® RAID Controller Compatibility⁴	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	2U Rack
Drive Bays	3 x hot-swap 3.5" SATA HDDs Optional slim-line CD-ROM drive	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
System Cooling	2 x fixed cooling blowers with duct 1 x system fan	2 x fixed cooling blowers with duct 1 x system fan	Supports three system fans
Power Supply	400 W PFC non-redundant power supply	400 W PFC non-redundant power supply	600 W PFC non-redundant power supply
Dimensions (H x W x D)	1.70" (43mm) x 16.92" (430mm) x 25.51" (648mm)	1.70" (43mm) x 16.92" (430mm) x 25.51" (648mm)	3.44" (87mm) x 16.93" (430mm) x 25.55" (649mm)



System	Intel® Server System SR2520SAX	Intel® Server System SR2520SAXS	Intel® Server System SR1520ML <i>Two independent uniprocessor systems in a 1U package for high-performance and high-density computing</i>
Order Code¹	SR2520SAXR SR2520SAXRNA	SR2520SAXSR SR2520SAXSRNA	SR1520ML SR1520MLNA
Components Included	<ul style="list-style-type: none"> Intel® Server Board S5000VSAR (SATA) Intel® Server Chassis SR2520 600 W power supply (<i>redundancy requires optional second power supply</i>) System fan with duct CD and HDD assemblies Pre-routed cables 	<ul style="list-style-type: none"> Intel® Server Board S5000VSAR (SAS) Intel® Server Chassis SR2520 600 W power supply (<i>redundancy requires optional second power supply</i>) System fan with duct CD and HDD assemblies Pre-routed cables 	<ul style="list-style-type: none"> Two Intel® Server Boards X38ML Integrated in the Intel® Server Chassis SR1520ML Two Intel® 1U thermal solutions Two PCI Express* x16 risers Support for two 2.5" fixed SATA drives 600 W high efficiency power supply Basic rail kit Pre-routed cables
Number of Processors Supported	2	2	2
Processor Support²	Multi-Core Intel® Xeon® processor	Multi-Core Intel® Xeon® processor	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® QPI (GT/s)³ / System Bus Speed (MHz)	1333 MHz ⁶ / 1066 MHz / 667 MHz	1333 MHz ⁶ / 1066 MHz / 667 MHz	1333 MHz ⁶ / 1066 MHz / 800 MHz
Chipset	Intel® 5000V Chipset	Intel® 5000V Chipset	Intel® X38 Express Chipset
PCI Buses	4	4	1
Total Slots	5	5	1
Slot Types	2 x low-profile PCI Express* x4 (<i>x8 mechanical</i>) 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 (<i>x8 mechanical</i>) 2 x low-profile PCI-X 64-bit 100/133 MHz 1 x low-profile PCI 32-bit 33 MHz	1 x PCI Express 2.0 x16
Memory Capacity	16 GB ECC Fully Buffered DDR2 (<i>8 DIMMs</i>)	16 GB ECC Fully Buffered DDR2 (<i>8 DIMMs</i>)	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	ATI* with 16 MB memory	ATI* with 16 MB memory	ServerEngines* iBMC
Server Management Support	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0
Intel® RAID Controller Compatibility⁴	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	2U Rack	2U Rack	1U short depth rack
Drive Bays	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	2 x fixed 2.5" SATA (<i>3.0 Gb/s</i>) HDDs
System Cooling	Supports three system fans	Supports three system fans	2 x fixed cooling blowers with ducts 2 x system fan
Power Supply	600 W, dual-line cord 1+1 PFC (<i>fully redundant configuration requires a second power module, order code TLIACPSU003</i>)	600 W, dual-line cord 1+1 PFC (<i>fully redundant configuration requires a second power module, order code TLIACPSU003</i>)	600 W high efficiency power supply
Dimensions (H x W x D)	3.44" (87mm) x 16.93" (430mm) x 25.55" (649mm)	3.44" (87mm) x 16.93" (430mm) x 25.55" (649mm)	1.70" (43mm) x 16.9" (430mm) x 20.0" (508mm)



System	Intel® Server System SR1530SH	Intel® Server System SR1530HSH
Order Code¹	SR1530SH SR1530SHNA	SR1530HSH SR1530HSHNA
Components Included	<ul style="list-style-type: none"> Intel® Server Board S3200SHVL Intel® Server Chassis with 350 W power supply System fan and cooling blowers with duct Intel® 1U thermal solution Slim-line DVD-ROM bay Basic rail kit Pre-routed cables 	<ul style="list-style-type: none"> Intel® Server Board S3200SHVL Intel® Server Chassis with 350 W power supply System cooling blowers with duct Intel® 1U thermal solution Slim-line DVD-ROM bay Basic rail kit Pre-routed cables
Number of Processors Supported	1	1
Processor Support²	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® Xeon® 3100 series processors
Intel® QPI (GT/s)³ / System Bus Speed (MHz)	1333 MHz ⁶ / 1066 MHz / 800 MHz	1333 MHz ⁶ / 1066 MHz / 800 MHz
Chipset	Intel® 3200 Chipset	Intel® 3200 Chipset
PCI Buses	6	6
Total Slots	1	1
Slot Types	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 (8 GB Max)	4 x DIMM slots for DDR2 667/800 MHz Unbuffered ECC/non-ECC DIMMs (8 GB Max)
Integrated SCSI	No	No
Integrated LAN	2 x Intel® Gigabit Ethernet Controller	2 x Intel® Gigabit Ethernet Controller
Integrated Graphics	ServerEngines* iBMC	ServerEngines* iBMC
Server Management Support	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0
Intel® RAID Controller Compatibility⁴	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
Drive Bays	2 x fixed 3.5" SATA (3.0 Gb/s) HDDs 1 x fixed slim-line DVD-ROM	3 x hot-swap 3.5" SATA (3.0 Gb/s) HDDs 1 x fixed slim-line DVD-ROM
System Cooling	2 x fixed cooling blowers with duct 1 x system fan	2 x fixed cooling blowers with duct
Power Supply	350 W PFC power supply	350 W non-redundant
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)



System	Intel® 4-Processor Server System S7000FC4UR	Intel® 4-Processor Server System S7000FC4UR
	<i>Maximum performance, reliability, and scalability</i>	<i>Maximum performance, reliability, and scalability</i>
Order Code ¹	SFC4UR (Value SKU)	SFC4URE (Enterprise SKU)
Components Included	<ul style="list-style-type: none"> One Intel® 4-Processor Server System S7000FC4UR Support for four SATA 2.5" disk drives with integrated RAID One 1570 W 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 	<ul style="list-style-type: none"> 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 W 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
Intel® QPI (GT/s) ³ / System Bus Speed (MHz)	1333 MHz ⁶ / 1066 MHz	1333 MHz ⁶ / 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® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRRMM2)	Intel® System Management Software 3.x Intel® Server Essentials 3.0 Intelligent Platform Management Interface 2.0 Support for Intel® Remote Management Module (AXXRRMM2)
Intel® RAID Controller Compatibility (Order Code) ⁴	Embedded RAID 0 and 1 Optional SAS/SATA riser module with Intel® Integrated Server RAID module (AFCASRISER) 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 (empty) Slimline CD/DVD-EOM
System Cooling	2 x hot-swap rear fans (full redundancy requires FFC4UBKFN) 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 W, 1+1, power supply (full redundancy requires AFC4UPWR)	Hot-swap and redundant 1570 W, 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)

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

² Refer to <http://support.intel.com/support/motherboards/server> for up-to-date details on processors supported by each server board.

³ Intel® QPI—Intel® QuickPath Interconnect; GT/s—Gigatransfers per second.

⁴ 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.

⁵ 1600 MHz support may require updates that may not be available at launch.

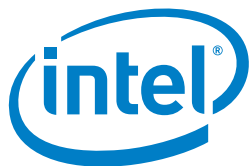
⁶ 1333 MHz support may require updates that may not be available at launch.

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INTEL® SERVER ADAPTERS

CONNECTIVITY FOR COPPER NETWORKS

10 GIGABIT-OVER-COPPER



	Intel® 10 Gigabit AT Server Adapter	Intel® 10 Gigabit CX4 Dual Port Server Adapter	Intel® 10 Gigabit AF DA Dual Port Server Adapter
Product Code—Singles	EXPX9501AT	EXPX9502CX4	E10G42AFDA
Product Code—Five Packs	N/A	N/A	N/A
Connector(s)	1 RJ-45	2 CX4	2 SFP+ Direct Attach Copper
End-Brackets	Low-profile and full-height	Low-profile and full-height	Low-profile and full-height
Ethernet Controller(s)	Intel® 82598EB	Intel® 82598EB	Intel® 82598EB
Bus Width and Type	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



	Intel® PRO/1000 PT Quad Port Server Adapter	Intel® PRO/1000 GT Quad Port Server Adapter	Intel® PRO/1000 PT Dual Port Server Adapter
Product Code—Singles	EXPI9404PTL / EXPI9404PT	PWLA8494GT	EXPI9402PT
Product Code—Five Packs	EXPI9404PTLBLK / EXPI9404PTBLK	PWLA8494GTBLK5	EXPI9402PTBLK
Connector(s)	4 RJ-45	4 RJ-45	2 RJ-45
End-Brackets	Low-profile / Full-height	Full-height	Low-profile and full-height
Ethernet Controller(s)	Intel® 82571GB	Intel® 82546GB	Intel® 82571GB
Bus Width and Type	PCI Express* x4	64-bit PCI/PCI-X	PCI Express* x4

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/products/embedded

CONNECTIVITY FOR COPPER NETWORKS

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



	Intel® PRO/1000 MT Dual Port Server Adapter	Intel® Gigabit ET Quad Port Server Adapter	Intel® Gigabit ET Dual Port Server Adapter
Product Code –Singles	PWLA8492MT	E1G44ET	E1G42ET
Product Code –Five Packs	PWLA8492MTBLK5	E1G44ETBLK	E1G42ETBLK
Connector(s)	2 RJ-45	4 RJ-45	2 RJ-45
End-Brackets	Low-profile and full-height	Low-profile and full-height	Low-profile and full-height
Ethernet Controller(s)	Intel® 82546GB	Intel® 82576	Intel® 82576
Bus Width and Type	32- or 64-bit PCI/PCI-X	PCI Express* x4	PCI Express* x4
Virtual Machine Device Queues (VMDq) Support	N/A	Yes	Yes
Security Features	N/A	IPsec	IPsec

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



10/100 Mb/s-OVER-COPPER



	Intel® PRO/1000 PT Server Adapter	Intel® PRO/1000 MT Server Adapter	Intel® PRO/100 S Dual Port Server Adapter	Intel® PRO/100 S Server Adapter
Product Code –Singles	EXPI9400PT	PWLA8490MT	PILA8472C3	PILA8470C3
Product Code –Five Packs	EXPI9400PTBLK	PWLA8490MTBLK5	PILA8472C3PAK5	PILA8470C3PAK5
Connector(s)	1 RJ-45	1 RJ-45	2 RJ-45	1 RJ-45
End-Brackets	Low-profile and full-height	Low-profile and full-height	Full-height	Full-height
Ethernet Controller(s)	Intel® 82572GI	Intel® 82545GM	Intel® 82550GY	Intel® 82550EY
Bus Width and Type	PCI Express* x1	32- or 64-bit PCI/PCI-X	32- or 64-bit PCI	32-bit PCI

CONNECTIVITY FOR FIBER NETWORKS

10 GIGABIT-OVER-FIBER SINGLE PORT



	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 (2.5 GT/s) x8	PCI Express* 2.0 (2.5 GT/s) x8	64-bit PCI/PCI-X	64-bit PCI-X

10 GIGABIT-OVER-FIBER MULTI-PORT

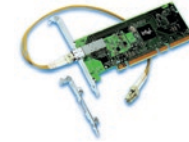


GIGABIT-OVER-FIBER MULTI-PORT

	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	Intel® Gigabit EF Dual Port Server Adapter
Product Code —Singles	EXPX9502AFXSR	EXPI9404PF	EXPI9402PF	PWLA8492MF	E1G42EF
Product Code —Five Packs	N/A	EXPI9404PFBLK	EXPI9402PFBLK	PWLA8492MFBLK5	E1G42EFBLK
Connector(s)	2 LC	4 LC	2 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	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	Low-profile and full-height
Ethernet Controller(s)	Intel® 82598EB	Intel® 82571GB	Intel® 82571GB	Intel® 82546GB	Intel® 82576
Bus Width and Type	PCI Express* 2.0 (2.5 GT/s) x8	PCI Express* x4	PCI Express* x4	64-bit PCI/PCI-X	PCI Express* x4
Virtual Machine Device Queues (VMDq) Support	N/A	N/A	N/A	N/A	Yes
Security Features	N/A	N/A	N/A	N/A	IPsec

CONNECTIVITY FOR FIBER NETWORKS

GIGABIT-OVER-FIBER SINGLE PORT

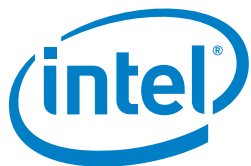


	Intel® PRO/1000 PF Server Adapter	Intel® PRO/1000 MF Server Adapter	Intel® PRO/1000 MF Server Adapter (LX)
Product Code —Singles	EXPI9400PF	PwLA8490MF	PwLA8490LX
Product Code —Five Packs	EXPI9400PFBLK	PwLA8490MFBLK5	PwLA8490LXBLK5
Connector(s)	1 LC	1 LC	1 LC
Fiber Optic Cabling	MMF 62.5/50µm up to 275m	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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INTEL® RAID CONTROLLERS



Controller	Intel® Integrated RAID Module SROMBSASMR	Intel® Integrated RAID 1U/2U Midplane	Intel® RAID Controller SRCASPH16I	Intel® RAID Controller SRCASJV
	Four-port internal RAID module for 1U, 2U, and pedestal use with server boards S5520HC and S5500WB	SAS and SAS RAID module for server systems SR1625UR, SR2600UR, and SR2625UR	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
Order Code	AXXR0MBSASMR AXXRSBBU3 (Optional Intel® RAID Smart Battery)	Midplane included with systems requires AXXRAKSAS2 for Hw RAID activation. AXXRSBBU3 (Optional Intel® RAID Smart Battery)	SRCASPH16I AXXRSBBU3 (Optional Intel® RAID Smart Battery)	SRCASJV AXXRPCM3 (Optional Intel® Portable Cache Module) AXXRSBBU3 (Optional Intel® RAID Smart Battery)
Processor Support	N/A	N/A	Intel® IOP333 I/O Processor 500 MHz	N/A
RAID On Chip	LSI* 1078	LSI* 1078	N/A	LSI* 1078
Memory	Embedded 128 MB ECC SDRAM	Supports up to 1 GB mini-DIMM ECC DDR2 667 MHz SDRAM	Embedded 256 MB ECC SDRAM	Ships with 512 MB DIMM (Supports up to 1 GB mini-DIMM ECC DDR2 667 MHz SDRAM)
PCI Bus	PCI Express* x8	PCI Express* x4	PCI Express* x8	PCI Express* x8
Channels	4 internal SAS/SATA ports supporting point-to-point 3.0 Gb/s data-transfer rates	8 SAS/SATA ports supporting point-to-point 3.0 Gb/s data-transfer rates	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
Form Factor	1U capable system board	System midplane	Full-height, 6.6" length	Low-profile, 8.25" 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	March 2009	March 2009	Now	Now

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



Controller	Intel® RAID Controller SRCASBB8I	Intel® RAID Controller SRCASRB	Intel® RAID Controller SRCASLS4I	Intel® RAID Controller SRCATAWB
	<i>Eight-port internal SAS/SATA RAID in a low-profile, MD2-compliant form factor for mainstream to performance solutions</i>	<i>Eight-port internal SAS/SATA RAID for mainstream solutions</i>	<i>Four-port internal SAS/SATA RAID in a low-profile, MD2-compliant form factor for entry-level to mainstream solutions</i>	<i>Eight-port Serial ATA RAID supporting up to 16 HDD through an expander backplane for entry-level to mainstream solutions</i>
Order Code	SRCASBB8I AXXRSBBU6 (Optional Intel® RAID Smart Battery)	SRCASRB AXXRSBBU4 (Optional Intel® RAID Smart Battery)	SRCASLS8I AXXRSBBU6 (Optional Intel® RAID Smart Battery)	SRCATAWB AXXRSBBU4 (Optional Intel® RAID Smart Battery)
Processor Support	N/A	N/A	N/A	N/A
RAID On Chip	LSI* 1078	LSI* 1078	LSI* 1078	LSI* 1078
Memory	Embedded 256 MB ECC SDRAM	Embedded 256 MB ECC SDRAM	Embedded 128 MB ECC SDRAM	Embedded 128 MB ECC SDRAM
PCI Bus	PCI Express* x8	PCI Express* x4	PCI Express* x8	PCI Express* x4
Channels	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	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
Form Factor	Low-profile, 6.6" length	Low-profile, 7.75" 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



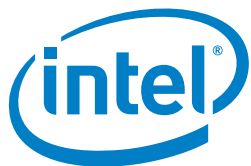
Controller	Intel® RAID Controller SASMF81	Intel® RAID Controller SASUC8I	Intel® RAID Controller SASWT4I	Intel® RAID Controller SRCAS144E
	<i>Eight-port SAS/SATA card with host-based RAID capability for entry-level RAID solutions</i>	<i>Eight-port SAS/SATA with pass through SAS and entry-level hardware RAID 0/1/1E/10E capability</i>	<i>Four-port SAS/SATA with pass through SAS and entry-level hardware RAID 0/1/1E/10E capability</i>	<i>Four-port internal and four-port external SAS/SATA RAID for mainstream solutions requiring external connectivity</i>
Order Code	SASMF81	SASUC8I	SASWT4I	SRCSAS144E AXXRSBBU3 (Optional Intel® RAID Smart Battery)
Processor Support	N/A	N/A	N/A	Intel® IOP333 I/O Processor 500 MHz
RAID On Chip	N/A	LSI* 1068	LSI* 1064	N/A
Memory	N/A	N/A	N/A	Embedded 128 MB
PCI Bus	PCI Express* x4	PCI Express* x4	PCI Express* x4	PCI Express* x4
Channels	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	4 internal SAS/SATA ports supporting point-to-point 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, 6.6" length	Low-profile, 6.6" length	Low-profile, 3/4 length
RAID Levels	0, 1, 5, and 10	0, 1, and 1E/10E	0, 1, and 1E/10E	0, 1, 5, 10, and 50
Battery Backup	No	No	No	Yes (Optional – purchased separately)
Availability	Now	Now	Now	Now

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INTEL® MANAGEMENT MODULES



Intel® Remote Management Module 2



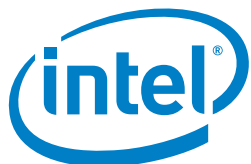
Intel® Remote Management Module 3

Feature Description	Intel® Remote Management Module 2	Intel® Remote Management Module 3
Positioning	<i>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.</i>	<i>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. Tightly integrated with onboard system firmware so users can use onboard NIC or dedicated management NIC for all RMM3 functionality.</i>
Order Code	AXXRMM2	AXXRMM3
Boards and Systems Support¹	Intel® Server Boards S5000PAL, S5000XAL, S5000PSL, S5000XSL, and S5400SF Intel® Server Systems SR1500AL, SR1550AL, SR2500ALBRP, SR2500ALLX, SR1550ALSAS, SR1500ALSAS, S7000FC4UR, SR1560SF, and SR1560SFHS	Intel® Server Boards S5520UR, S5520HC, S5500HCV, S5520SC, S5500BC, and S5500WB Intel® Server Systems SR1600UR, SR1600URSAS, SR1625UR, SR1625URSAS, SR2600URBRP, SR2600URLX, SR2625URBRP, SR2625URLX, and SR1630BC
Remote Server Restart	▪	▪
OEM Customization	▪	▪
USB Media Redirection	▪	▪
Hardware Sensor Monitoring	Support built into system firmware	Support built into system firmware
Text Console Redirection (Serial over LAN)	IPMI 2.0 SOL support built into system firmware	Support built into system firmware
SNMP	Support built into system firmware	Support built into system firmware
Embedded Telnet Server (Proxy-less CLI Operations)		Support built into system firmware
LDAP, SSH, SSL Support	▪	▪
SMASH CLP Support	▪	Support built into system firmware
WS-MAN	▪	▪
Embedded Video/GUI (KVM) Redirection	▪	▪
Embedded Web Server	▪	▪
Dedicated Server Management NIC	▪	▪
Agent-less Management	▪	▪

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

¹ For the latest server board support please visit <http://support.intel.com/support/motherboards/server>
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INTEL® STORAGE SYSTEMS



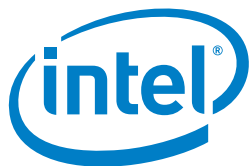
System	Intel® Entry Storage System SS4200-E	Intel® Storage System SSR212MC2
	<i>An easy-to-use, affordable NAS appliance with simple software to help you easily manage your ever-expanding data</i>	<i>High-density, dual-core-based 2U storage server platform that can be coupled with one of a number of different industry software solutions to create a SAN, NAS, or DAS appliance</i>
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® System Management Software 3.0
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 SATA II (secured; non-hot-swap)	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 AMCB50WPS)
Software	Fully integrated NAS management software from EMC* with EMC Retrospect* Client Backup and Recovery application Option to use other certified NAS software.	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 / MFS5520VI <i>High-performance, power- and heat-efficient Intel® 64-bit-capable, multi-core server</i>
Order Code	MFS5000SI / MFS5520VI
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
Supported Speeds	1333 or 1066 MHz (<i>Front Side Bus</i>) 6.40, 5.86, or 4.80 GT/s (<i>Intel® QuickPath Interconnect</i>)
Chipset	Intel® 5000P Server Chipset / Intel® 5520 Server Chipset
Total Slots	1 Mezzanine Expansion Connector
Onboard HDD	None
Memory Capacity	MFS5000SI: 8 FBDIMMs MFS5520VI: 12 DDR3 DIMMs (<i>6/CPU</i>)
Integrated SAS HBA	Connectivity to shared storage provided via onboard LSI* 1064e controller
Integrated LAN	2x Gigabit Ethernet (<i>4x with optional gigabit mezzanine card AXSGBIOMEZ</i>)
Integrated Graphics	ATI* ES1000 16 MB Video Controller
Integrated Management	Remote management (<i>KVM over IP</i>) 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	MFS5000SI: 2 x USB, 1 DB15 video MFS5520VI: 4 x USB, 1 DB15 video

Chassis	Intel® Modular Server System MFSYS25 / MFSYS35 <i>One system that integrates storage, compute, and networking to simplify the demands of your business</i>
Chassis Order Code	MFSYS25 / MFSYS35
Spares Kit Order Code	See support.intel.com for a complete configuration guide
Form Factor	6U (<i>can be deployed in a rack or pedestal kit</i>)
Intel® Server Board Support	Intel® Modular Server Compute Module MFS5000SI / MFS5520VI
Server Slots	6
Shared Storage HDD Bay	Supports up to 14 x 2.5" drives or 6 x 3.5" drives (<i>MFSYS35</i>)
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 (<i>fully redundant system configuration requires two additional power modules AXXPUSU</i>)
Tool-less Features	Complete tool-less serviceability
Dimensions (H x W x D)	10.3" x 17.5" x 28.4"
Weight	187 lbs (<i>84.8 kg</i>) 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

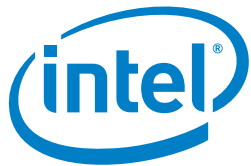
For more information, visit the Intel Web site at: www.intel.com/go/mft

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® Enabled Server Acceleration Alliance (Intel® ESAA)



The Intel® Enabled Server Acceleration Alliance (Intel® ESAA) is a collaboration between Intel and independent software vendor (ISV) members that enables resellers to deliver pre-tested, high-quality server solutions based on Intel® Server Boards and Systems. Reseller benefits include:

- **Faster time to market using pre-tested solution recipes that provide step-by-step configuration instructions**
- **Reduced engineering costs with access to pre-validated and proven technologies**
- **Pass-through certification from companies such as VMware, RedHat, and Novell**
- **Alignment with Intel's world-class server technology leadership and pre- and post-sales support infrastructure**



Gain a Competitive Edge

Membership in the program is an automatic benefit for Intel® Channel Partner Program members at the Premier and Associate levels.¹ Intel ESAA provides instant access to pre-verified solution configuration guides (“recipes”) from ISVs around the globe. These recipes give insight into newly introduced hardware and software solutions and help resellers build customer loyalty by meeting complex requirements rapidly. Thanks to the comprehensive resources available through the Intel ESAA program, resellers can get to market early with leading-edge technologies—and stay ahead of the competitive curve.

“With Intel® ESAA, we get all our Intel products certified under our brand name with Red Hat, Novell, and VMware—for free.”

Patrick Scateni, Ciara Technologies

Intel® ESAA – A Recipe for Success

Getting components from different vendors to work seamlessly in a single, reliable solution can be a challenge. Meanwhile, end customers want solutions that feature the latest technologies—without deployment or troubleshooting headaches. And with so many vendors in the

marketplace, validation has become critical. That's where the Intel® ESAA program comes in, giving Intel® Channel Partners access to pre-validated configuration and development specifications for a wide range of Intel®-based server solutions. Available applications include HPC, virtualization, storage, backup and recovery, database, and more.

Thanks to the exclusive development resources available through the collaborative Intel ESAA community, resellers can expand revenue channels, get to market faster, and increase sales.

Ongoing World-Class Support

As a worldwide technology community, Intel ESAA strives to promote a healthy and thriving business ecosystem that connects Intel Channel Partners with industry-leading software and hardware companies to enable the reliable and seamless integration of Intel® Server Products. Intel ESAA members benefit from marketing and sales tools, pre- and post-sales training, and technical support so they can get to market faster with leading-edge server technologies from Intel.

"Having step-by-step instructions and certification gave my clients peace of mind."

Dennis Evans, Dennis' Computers

As the Intel ESAA community continues to grow, Intel plans to expand opportunities and new markets for members and further reduce barriers to certification. The Intel ESAA program gives resellers the tools they need to accelerate the delivery of high-quality server solutions, reach new customers, and achieve even greater success.

For more information or to join the program, visit www.intel.com/go/esaa



¹ Membership in the program is a free benefit for Intel® Channel Partner Program members at the Premier and Associate levels. For more information on how to become a member of the Intel® Channel Partner Program, visit www.intel.com/cd/channel/reseller/emea/eng/membership/index.htm.

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