Product Brief

Intel® Server Products

Upgrade Your Server Lineup—Without a Redesign

Get up to 60 percent better performance from existing systems, just by plugging in a new processor.[1,2]

All Intel® Server and Workstation Boards currently based on the Intel® 5500 and 5520 chipsets are ready for drop-in upgrade to the Intel® Xeon® processor 5600 series based on new 32nm process technology.

Intel® Server Products featuring the new Intel Xeon processor 5600 series deliver an extraordinary array of features that can help value-added resellers propel their customers of all sizes into a more successful future. Optimized board designs save power with high-efficiency voltage regulators, spread-core layouts, and advanced software control to optimize performance and performance per watt.

New Features Supported in Intel® Server Products:

Gold-efficiency power supplies available for select systems

Intel® On-Demand Redundant Power Technology moves a system's full load to the active redundant power supply, enabling redundancy only when needed

Increased performance for secure transactions with Intel ® Advanced Encryption Standard

Support for low-voltage DDR3 memory, automated low-power states, and the lowest power server processors on the market

Up to 45 percent more virtualization capacity compared to platforms based on existing generation processors[3]

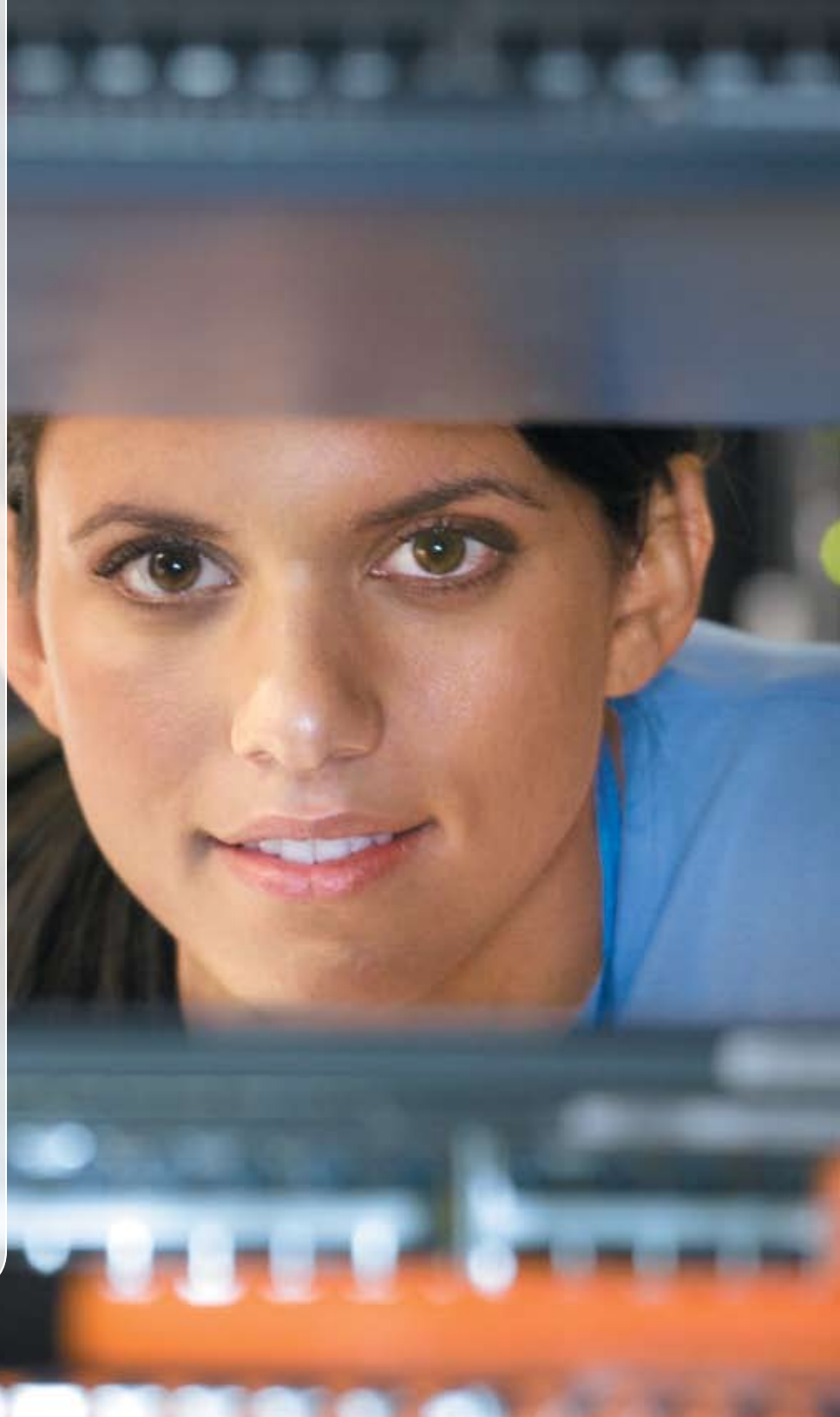
Not all features available for all products.
Visit www.intel.com/go/serverproducts for specific configuration details.

Seize the Future with Intel® Server Products

Intel Server Boards and Intel Workstation Boards are engineered from the processor out to position you to take advantage of the latest intelligent server technologies from Intel. Collaborating with Intel has been a steady route to success for both value-added resellers and their customers for many years, and the availability of the Intel Xeon processor 5600 series as a drop-in upgrade to existing Intel Server Products[2] enhances that relationship. This simple means of updating products helps put the newest generation of processor technology to work as fast as possible, extending the value of reseller relationships with Intel.

- **Quality Engineered from the Processor Out.** Intel draws on more than 17 years of design, build, and validation experience to engineer boards and systems that are rigorously tested to meet or exceed global standards and feature advanced "eco-smart" technologies. Resellers and their customers can count on Intel Server Products to deliver maximum value from processor innovations.
- **Flexibility to Help You Exceed Customer Expectations.** An expansive roadmap of innovative server building blocks such as the Intel® Modular Server help resellers and their customers meet a variety of IT challenges, plus purpose-built I/O modules, Intel® RAID, and software tools provide extensive configuration options to meet the most demanding customer requirements.
- **Support from a Trusted Partner.** Industry-leading warranty and support options extend your customers' confidence in Intel Server Products. Membership programs, training events, Intel® Enabled Server Acceleration Alliance solution recipes, branding assets, and marketing tools plus competitive pricing add to the value of partnering with Intel to deploy solutions.

Intel is at the core of a strong ecosystem of relationships that extends from hardware engineers that design the platforms to resellers that configure and deploy systems, all the way to end customers that rely on Intel® architecture to run their businesses. Resellers can safeguard their success—and that of their customers—with server products from a trusted partner that are engineered to take full advantage of the latest Intel Xeon processor technologies.



Intel® Xeon® Processor 5600 Series Features Supported in Intel® Server Products

	Intel® Server Board S5520UR SS550URT **Intel® Server System SR1600UR SR1625UR SR2600UR SR2612UR SR2625UR** (Flexible I/O Configurations)	**Intel Server Board S5500HV** **Intel Server System SR1670HV** (High-Density Computing)	**Intel Server System SR1680MV** (High-Density Computing)	**Intel Server Board S5500WB** **Intel Server System SR1690WB** (Data Center)	**Intel® Compute Module MFS5520VI** (Intel® Modular Server)	**Intel Server Board S5520HC S5520HCT** (Performance Pedestal)	**Intel® Workstation Board S5520SC** (Two-Way Workstation)	**Intel Server Board S5500BC** (Entry Pedestal)
Two DIMMs Per Channel at 1333 MHz	X	X	X	X	X	X	X	X
Board-Level 16GB DDR3 DIMM Support	X	X[4]	X[4]	X	X	X	X	
Intel® Advanced Encryption Standard	X	X	X	X	X	X	X	X
1 GB Memory Pages	X	X	X	X	X	X	X	X
Memory Sparing	X	X	X	X	X	X	X	
Low Voltage DDR3 DIMM Support	X	X	X	X	X	X	X	X
Intel® Trusted Execution Technology via Trusted Platform Module	X[5]					X[5]		
80 PLUS* Gold-Efficiency Power Supply	X[6]		X					
Intel® On Demand Redundant Power Technology	X[6]							

Take the Next Step

Intel Server Products bring quality, flexibility, and support to multi-processing environments while future-proofing your customers' IT investment.

Ready to seize the future?

Contact your Intel sales representative or visit

www.intel.com/reseller

[1] Source: Internal Intel measurements, March 2010. Comparison of Intel® Xeon® processor X5680 (130W) to Intel® Xeon® processor X5570 (95W) using the Black-Scholes* financial application. Visit http://www.intel.com/performance/server/xeon/hpc.htm for complete benchmarking information.

[2] May require BIOS update; visit http://www.intel.com/support/motherboards/server/ for details.

[3] Compared to current-generation Intel® Xeon® processor 5500 series using vConsolidate.

[4] Board-level 16 GB DDR3 DIMM support not present at launch.

[5] Intel® Trusted Execution Technology available with only Intel® Server Board SKUs SS550URT and S5520HCT and Intel® Server System SKU SR2625URLXT.

[6] Available for only Intel® Server System SR2600/SR2625 families.

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