

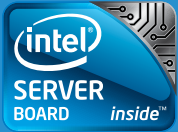
Our Server Boards. Your Competitive Edge.

Featuring the intelligent performance of Intel® Xeon® processors, Intel® Server Products deliver the quality, flexibility and support you need to seize the future.

Intel® Server and Workstation Boards are engineered from the processor out to give you a competitive edge. Optimized board designs feature high-efficiency voltage regulators, spread-core layouts, and advanced software controls to increase performance and power efficiency.

- **Quality:** 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.
- **Flexibility:** An extensive roadmap of innovative server building blocks helps you meet a variety of customer IT requirements. Purpose-built I/O modules, Intel® RAID, and software tools further expand your configuration options.
- **Support:** Industry-leading warranty and support programs give you—and your customers—confidence in choosing Intel Server Products. Competitive pricing, training events, sales tools, and configuration resources add to the value of partnering with Intel to deploy solutions.





Tested and validated with the latest generation of Intel® Xeon® processors, Intel® Server Boards and Intel® Workstation Boards provide a range of options from entry level to high performance, with cutting-edge technologies.

**Intel® Server Boards
S5520UR and S5520URTX†**



Rack optimized for high-end computing where flexibility is key

- Dual Intel® Xeon® processors 5600 series and Intel® 5520 Chipset with ICH10R
 - Twelve DDR3 DIMMs on six channels
 - Up to five I/O expansion slots with options
- Form Factor:** SSI TEB (12 inch x 13 inch)

**Intel® Server Boards
S5520HC, S5520HCTX†,
and S5500HCV**



Pedestal-optimized for enterprise performance and flexibility

- Dual Intel® Xeon® processors 5600 series and Intel® 5520 Chipset with ICH10R
 - Nine or twelve DIMMs on six channels
 - Six I/O expansion slots or five slots plus SAS ROC module
- Form Factor:** SSI EEB (12 inch x 13 inch)

† TPM-enabled boards are drop-in ready to take advantage of Intel® Trusted Execution Technology (Intel® TXT)† in the latest generation of Intel® Xeon® processors.

**Intel® Server Board
S5500WB**



Unique spread-core design for high energy efficiency and lowest TCO in dense computing applications

- Dual Intel® Xeon® processors 5600 series and Intel® 5500 Chipset with ICH10R
 - Eight DDR3 DIMMs on six channels
 - Up to three I/O expansion slots with options
- Form Factor:** SSI TEB (12 inch x 13 inch)

**Intel® Server Board
S5500HV**



Half-width, dual processor board for maximum compute density

- Dual Intel® Xeon® processors 5600 series and Intel® 5500 Chipset with ICH10R
 - Twelve DDR3 DIMMs on six channels
 - One I/O expansion slot
- Form Factor:** Custom (6.3 inch x 16.7 inch)

**Intel® Workstation Board
S5520SC**



Workstation optimized with flexible expandability for graphics-intensive applications

- Dual Intel® Xeon® processors 5600 series and Intel® 5520 Chipset with ICH10R
 - Twelve DDR3 DIMMs on six channels
 - Five I/O expansion slots
- Form Factor:** SSI EEB (12 inch x 13 inch)

**Intel® Server Board
S5500BC**



High reliability and quality for small and medium-sized businesses

- Dual Intel® Xeon® processors 5600 series and Intel® 5500 Chipset with ICH10R
 - Eight DDR3 DIMMs on four channels
 - Up to five I/O expansion slots with options
- Form Factor:** SSI CEB (12 inch x 10.5 inch)

**Intel® Server Boards
S3420GPRX, S3420GPLX,
S3420GPLC, and S3420GPV**



Single processor boards for cost-effective server class performance

- Single Intel® Xeon® processor 3400 series and Intel® 3420 Chipset
 - Four to six DDR3 DIMMs on two channels
 - Three to seven I/O expansion slots
- Form Factor:** ATX

**Intel® Workstation Board
WX58BP**



Entry-level workstation board with ECC* memory support

- Single Intel® Xeon® processor 3600 series and Intel® X58 Express Chipset with ICH10R
 - Four DDR3 DIMMs on three channels
 - Six I/O expansion slots
- Form Factor:** ATX

Intel® Server Systems, optimized for Intel® Xeon® processors, are designed using Intel's intimate understanding of the platform to deliver extraordinary business value.

SIMPLICITY IN A BOX: Amazing versatility

Intel® Modular Server

Integrates storage, computing, and networking for easy deployment and management. Enterprise-level features with intuitive, powerful Web-based management include a simple configuration, capacity on demand and easy reallocation of resources:

- Up to six server compute modules each supporting up to two Intel Xeon processors 5600 series
- Fourteen 2.5-inch SAS or six 3.5-inch SAS/SATA drives
- Up to two 10-port Gigabit Ethernet switch modules
- N+1 redundant hot-swappable power subsystem
- Additional storage control module for full redundancy



HIGH DENSITY/ENTERPRISE: 1U and 2U, dual processor full-featured rack systems

Intel® Server Systems SR1600UR, SR1625UR, SR2600UR, and SR2625UR

Based on the Intel Server Board S5520UR with twelve DIMMs for 96 GB DDR3 memory and multiple I/O expansion options, this group of servers includes a serious lineup for maximum flexibility and reliability:

- SR1600UR: 1U, three 3.5-inch SAS/SATA drives, fan board (SR1600URR) or optional backplane (SR1600URHSR) models
- SR1625UR: 1U, eight 2.5-inch hot-swappable SAS/SATA drives, passive midplane (SR1625URR) or active (SR1625URSASR) options
- SR2600UR: 2U, six 3.5-inch hot-swappable SAS/SATA drives, dual power supply option (SR2625URSATAR)
- SR2625UR: 2U, eight 2.5-inch hot-swappable SAS/SATA drives, TPM-enabled system options (SR2625URLXTR)¹



STORAGE: Maximum hard drive capacity in a 2U system

Intel® Server System SR2612UR

Ideal for applications where high disk drive counts enable higher performance or additional storage capacity, with an expander backplane that allows the drives to be controlled by one Intel® RAID Controller:

- Supports two Intel Xeon processors 5600 series
- Up to twelve SAS/SATA hot-swappable drives
- Two hot-swappable, high-efficiency 760W power supplies
- Three PCIe* x8 Gen2 slots, upgradable to five with optional riser cards



HPC/DATA CENTER: High-density 1U rack systems optimized for performance and power efficiency

Intel® Server Systems SR1670HV, SR1690WB, SR1695WB

Dual and quad Intel Xeon processor 5600 series-based systems with specialized features for targeted data center use:

- SR1670HV: Four-socket system based on Intel Server Board S5500HV with two PCIe x16 Gen2 riser slots
- SR1690WB: Two-socket, four hot-swappable 3.5-inch or 2.5-inch SAS/SATA drives with power-efficient server board S5500WB
- SR1695WB: Two-socket, four hot-swappable 3.5-inch or 2.5-inch SAS/SATA drives with power-efficient server board S5500WB and optional AC or DC redundant power



To learn more go to: www.intel.com/go/serverproducts

HIGH-PERFORMANCE, DUAL-SOCKET PEDESTAL SERVER: Designed for reliability and expandability



Intel® Server System SC5650HCBRP

High performance Intel Server Board S5520HC with twelve DDR3 DIMMs and six PCIe/PCI expansion slots can be used for database applications, e-mail, storage, and virtualization:

- Support for two Intel Xeon processors 5600 series
- Six PCIe/PCI expansion slots
- Upgradable to six 3.5-inch hot-swappable SAS/SATA drives
- Hot-swappable redundant fans

HIGH-PERFORMANCE, DUAL-SOCKET WORKSTATION: When maximum compute performance is required



Intel® Workstation System SC5650SCWS

Ideal for CAD/CAM, scientific, digital content creation, and industrial applications where performance leads to increased productivity:

- Support for two Intel Xeon processors 5600 series
- Two PCIe x16 Gen2 slots for high-performance graphics
- Upgradable to six 3.5-inch hot-swappable SAS/SATA drives
- Integrated 7.1 high-definition audio, IEEE 1394a and USB ports
- 1000W power supply

WEB HOSTING: 1U Four-node system for high-density applications



Intel® Server System SR1640TH

The SR1640TH system includes two trays, each with two separate Intel Xeon processor 3400 nodes and a high efficiency power supply:

- Four nodes, each supporting one Intel Xeon 3400 processor series
- Two high-efficiency 450W power supplies
- Four fixed 3.5-inch SATA drive bays (one per socket)

VALUE: Entry-Level, 1U, single processor systems

Intel® Server System SR16xxGP family

A group of entry-level 1U rack servers supporting the Intel Xeon processor 3400 series with various options for affordable file and print servers, vertical specific business applications, and e-mail:

- SR1630GP: two 3.5-inch fixed SATA drives and 20-inch depth
- SR1630HGP: three 3.5-inch hot-swappable SAS/SATA drives
- SR1630GPRX: two 3.5-inch fixed SATA drives, 20-inch depth, high-efficiency power supply, five Gigabit Ethernet ports, internal/external I/O expansion module
- SR1630HGPRX: three 3.5-inch hot-swappable SAS/SATA drives, high-efficiency power supply, five Gigabit Ethernet ports, internal/external I/O expansion module
- SR1695GPRX: premium feature set of four 3.5-inch hot-swappable SAS/SATA drives that convert to 2.5-inch, high-efficiency redundant AC power supply, five integrated Gigabit Ethernet ports, internal/external I/O expansion module



Note: Not listed are Intel® Server Systems SR1630BC and SC5650BCDP, a dual processor 1U rack and dual processor pedestal system based on Intel® Server Board S5500BC.



Intel® Server Boards and Systems are rigorously tested in a variety of usage models to help you deploy with confidence, and system-level engineering draws from industry-leading platform innovation.

Intel solution components are built to work together for excellent results: management software, RAID products, server adapters, and more. Our world-class support helps your Intel-based solutions keep performing, year after year.

Simple, Secure, and Smart—Intel® Server Management Makes IT Easier

The cost of deploying and monitoring simple or complex server configurations can add up quickly. Intel® Server Management products help streamline initial setup and management with a suite of options.

Intel® Deployment Assistant

A free application that helps IT organizations easily configure Intel® servers by finding the latest updates, configuring RAID, and launching an unattended OS install.

Intel® Server Management Software

A suite of software products designed to reduce the cost and time of managing servers, including proactive health monitoring, asset inventory, and tools to quickly debug server problems.

Intel® Remote Management Modules

Optional hardware-based modules for specific Intel® Server Boards that enable secure remote access and full-screen KVM redirection features for off-site server management.

www.intel.com/go/servermanagement

Intel® RAID 6 Gb/s Products for Faster and More Secure 3 Gb/s and 6 Gb/s Systems

Intel RAID 6 Gb/s solutions provide significant read-and-write performance enhancements for both 3 Gb/s and 6 Gb/s drive-based systems. In addition, Intel RAID 6 Gb/s controllers improve data security and enhance ROI with Self-Encrypting Drive management.

www.intel.com/go/RAID

Intel® Ethernet Server Adapters with Intel® Virtualization Technology² for Connectivity (Intel® VT-c)

Intel VT-c lowers CPU utilization, reduces system latency, and improves networking and I/O throughput. Available in many configurations, Intel Ethernet Server Adapters complement the server product lineup for end-to-end solutions.

www.intel.com/go/ethernet

Help Remove I/O Bottlenecks and Lower Power Consumption with Intel® Solid State Drives (SSDs)

With no moving parts, Intel SSDs are a high-performance, low-latency storage solution that uses less power and is more reliable than conventional drives. One Intel® X25-E Extreme SATA SSD can replace up to 50 high-rpm hard-disk drives for significant cost reduction.

www.intel.com/go/ssd

Configure the Ideal Solution with Intel® I/O Expansion Modules

Intel I/O Expansion Modules enable internal or external SAS, SAS RAID, dual or quad Gigabit Ethernet, 10 GbE, and InfiniBand* interconnects for selected Intel Server Boards and Systems without consuming standard PCI* slots.

www.intel.com/go/iomodules

Intel® Server Processors



Intel server processors deliver enhanced, energy-efficient performance for data-intensive business applications. Powering a range of multi-core 64-bit servers, Intel Xeon processors enable you

to optimize and scale computing environments to maximize server utilization, while providing you with headroom for growth.

www.intel.com/go/xeon

Intel® ESAA: Your Recipe For Success

The Intel® Enabled Solutions Acceleration Alliance (Intel ESAA) gives resellers free access to hundreds of pre-validated configuration guides ("recipes") for Intel Server and Workstation Boards, jointly developed by Intel and application vendors like Symantec, Novell, VMware, Oracle, and Red Hat.

With Intel ESAA, system builders can:

- Save time with recipes that help them select and build the right combination of hardware and software to meet customer needs.
- Save money with reduced engineering costs and free pass-through branded system certification from VMware, Citrix, EMC, Novell, and Red Hat.

www.intel.com/go/esaa

Intel® Server Configurator Tool

The Intel Server Configurator Tool allows system builders to quickly and efficiently select compatible components to design a complete server system.

<http://serverconfigurator.intel.com/>

"Eco-Smart" Intel® Server Products

Intel server products offer resellers a wide range of low-power Intel Xeon processor, memory configuration and power supply options. Platform-level energy efficiencies include:

- **Intel® On Demand Redundant Power Technology** moves a system's full load to the active redundant power supply, reducing power consumption by enabling redundancy only when needed.
- **Low Voltage DDR3 (LVDDR3) Memory** delivers higher memory capacity and bandwidth while using significantly less energy.
- **Power Management Bus (PMBus) Protocol** lets users monitor power supply operation and perform corrective measures if necessary.
- **Intel® Virtualization Technology (Intel® VT)** helps optimize system utilization so users can consolidate multiple environments onto a more energy-efficient server infrastructure.

Around-the-Clock Global Support

Dedicated service agents are available 24 hours a day, 7 days a week via online chat and phone to help resolve technical issues quickly. Online Channel Partner Technical Support (OCPTS) fields return and support requests, and tracks open issues in one convenient online location.

www.intel.com/reseller

Backed by a World-Class Warranty

All Intel server products include a three-year limited warranty. Throughout the warranty period, Intel will repair, replace, or refund a product that fails, depending on warranty terms and conditions. With Advanced Warranty Replacement (AWR), Intel immediately ships out replacement products, without having to first wait for the defective part to be returned.

www.intel.com/support

¹ No computer system can provide absolute security under all conditions. Intel® Trusted Execution Technology (Intel® TXT) requires a computer system with Intel® Virtualization Technology, an Intel TXT-enabled processor, chipset, BIOS, Authenticated Code Modules and an Intel TXT-compatible measured launched environment (MLE). Intel TXT also requires the system to contain a TPM v1.s. For more information, visit <http://www.intel.com/technology/security>.

² Intel® Virtualization Technology requires a computer system with an enabled Intel® processor, BIOS, virtual machine monitor (VMM). Functionality, performance or other benefits will vary depending on hardware and software configurations. Software applications may not be compatible with all operating systems. Consult your PC manufacturer. For more information, visit <http://www.intel.com/go/virtualization>.

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