



## Product Brief

- Designed for Intel® Server Board SE7500WV2
- Accommodates Dual Intel® Xeon™ Processors with 512KB Advanced Transfer Cache
- Features Two 64-bit PCI/PCI-X Slots, One Full-Length, One Low-Profile



## Intel® Server Chassis SR1300

Innovative, 1U Rack-Optimized Server Chassis  
for Reliable High-Density Solutions

High-density rack-mount servers are emerging as one of the strongest segments in the entry-level server space. Their thin design saves space and simplifies the installation, operation, and maintenance of co-located systems. The new Intel® Server Chassis SR1300 provides an ideal foundation for such systems, helping businesses to meet the challenges of consolidating front-end and general-purpose servers.

# Performance and Availability for High-Density Environments

## Latest Server-Chassis Technology Supports Wide-Ranging Needs

Rack-optimized specifically for the Intel® Server Board SE7500WV2, the Intel® Server Chassis SR1300 supports a variety of high-density system configurations. The Intel® Server Chassis SR1300 includes two PCI/PCI-X risers, each accommodating one PCI adapter card (one full-length and one low-profile), two drive bays accepting SCSI hot-swap or ATA (IDE) cold-swap drives, and a special flexible bay that allows for an additional SCSI hot-swap hard drive or a slim-line CD-ROM/floppy or DVD/floppy drive module. In addition, advanced thermal-monitoring and cooling capabilities, including five high-speed fans, consolidated cables, and special ducting and baffling, make the Intel® Server Chassis SR1300 an especially reliable platform for harnessing the high performance of dual Intel® Xeon™ processors.

## Tool-Free Serviceability, Multipurpose Solutions

For ease of troubleshooting and maintenance, the Intel® Server Chassis SR1300 ships with instrumented components,

multiple LED indicators, and front and rear access to USB and video ports. Installation and administration are also simplified thanks to the chassis' tool-free fan assembly, PCI riser assembly, control-panel board, and power-supply module. All this makes the Intel® Server Chassis SR1300 ideal for such applications as Web hosting, application hosting, search engine, cache, VPN, Voice Over IP (VOIP), multimedia, proxy, e-mail, and file/print.



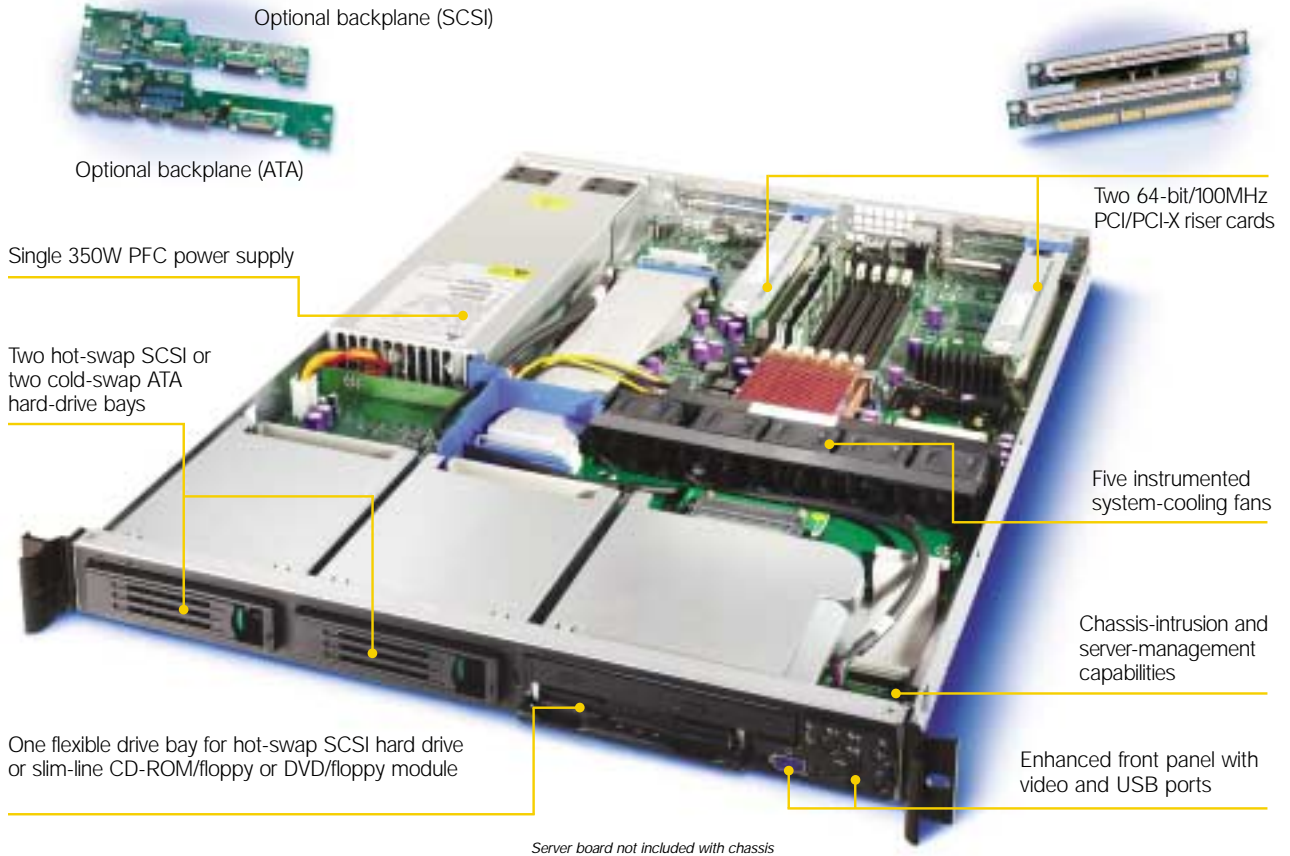
## Features

## Benefits

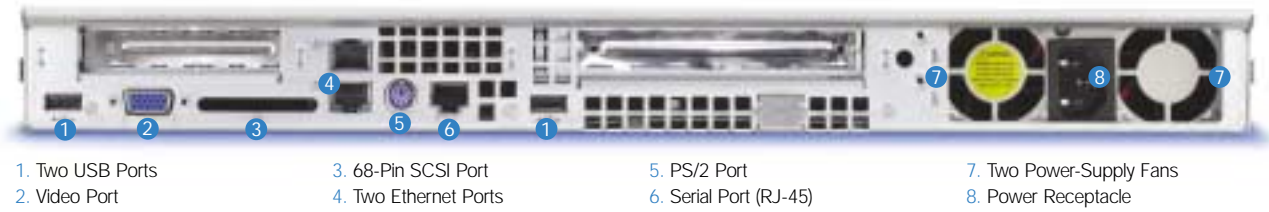
|  |  |
|--|--|
| Specifically designed for and validated with the Intel® Server Board SE7500WV2   | Simplified integration and full 1U benefits  |
| Up to three hot-swap SCSI hard-drive bays with SCSI backplane option   | Easily expandable storage capacity, SCSI integrity, and up to 160 MB/sec data-transfer rate with hard drives |
| Up to two cold-swap ATA/100 (IDE) hard-drive bays with ATA backplane option  | Generous storage capacity, ATA (IDE) RAID support with up to 100 MB/sec data-transfer rate                   |
| Additional bay for third SCSI hard drive or optional slim-line CD-ROM/floppy or DVD/floppy drive module  | Flexible system-configuration options  |
| Two expansion slots on dual-peer PCI/PCI-X riser cards with up to 64-bit/100MHz support  | Room for two high-throughput adapter cards operating on separate buses                                       |
| Front-access USB and video ports   | Easy portable peripheral and video attachment  |
| Tool-free serviceability   | Minimal maintenance downtime   |
| One fan module with five system fans and two power-supply fans   | Advanced cooling to support dual Intel® Xeon™ processors (PWT processor cooling fan and duct not necessary)  |
| Chassis-intrusion protection and support for Intel® Server Management software, including automatic health monitoring, proactive messaging, and post-issue diagnostics | Security and availability  |
| 350-watt PFC power supply  | Ample power and availability for full 1U system integration, limited risk of power surges, reduced waste     |
| Multiple international regulatory approvals <sup>1</sup>   | Faster development and qualification and reduced time to market  |
| Optional key-locked front bezel  | Prevention of unauthorized access to peripherals and control panel   |

<sup>1</sup> When integrated as specified in the Intel® Server Board SE7500WV2 integration guide. Please see <http://support.intel.com/support/motherboards/server/SE7500WV2> for details.

# Intel® Server Chassis SR1300



## Intel® Server Chassis SR1300 Rear Panel



- 1. Two USB Ports
- 2. Video Port
- 3. 68-Pin SCSI Port
- 4. Two Ethernet Ports
- 5. PS/2 Port
- 6. Serial Port (RJ-45)
- 7. Two Power-Supply Fans
- 8. Power Receptacle



## Build Value with Intel Server Products, Programs, and Support



Intel is committed to providing industry-leading server building blocks, programs, and support services to help system integrators successfully compete in the evolving Internet economy. Get the high-value server solutions you need to succeed by taking advantage of the outstanding value Intel provides its system integrators:

- High-quality server building blocks
- Extensive breadth of server building blocks
- Solutions and tools to enable e-Business
- Comprehensive training services
- Worldwide 24x7 technical support
- World-class service, including a three-year limited warranty and Advanced Warranty Replacement

For more information on Intel's added-value server offerings, please visit: [www.intel.com/go/serverbuilder](http://www.intel.com/go/serverbuilder)

## Complete Your Intel® Server Chassis SR1300 with Intel® Server Building Blocks

Add the following Intel® server building blocks to your Intel® Server Chassis SR1300 to ensure a highly reliable, available, and scalable server:



**Intel® Xeon™ Processors** provide a powerful foundation for business computing. They help to keep your business up and running by enabling you to cost-effectively manage growth by simply adding processors to your existing servers.



**Intel® Server Board SE7500WV2** provides superior performance for reliable and manageable high-density solutions. The Server Board SE7500WV2 features:

- Support for dual Intel® Xeon™ processors with 512KB Advanced Transfer cache
- Triple-peer PCI/PCI-X buses with up to 64-bit/100MHz bandwidth
- Six DIMM sockets for up to 12 GB of dual interleaved DDR200/266 memory
- Advanced Intel® Server Management software
- Ultra160 SCSI or ATA/100 RAID



**Intel® Server Management** monitors key server components and helps solve many problems easily with integrated in-band and out-of-band remote management through LAN and modem connections, event logging and alerting through e-mail or paging devices, and proactive fault management.



**Intel® RAID Controllers** are designed to protect data, applications, and the server operating system from disk failures. Intel offers an affordable high-performance line of RAID products, which are tested and validated for easy integration with Intel server building blocks.



**Intel® PRO Server Adapters**, including Fast Ethernet and Gigabit Ethernet server adapters, help to reduce bottlenecks and improve availability with advanced performance and server features.

# Intel® Server Chassis SR1300 Specifications

## Form Factor

1U rack-mount server chassis for EIA Standard 310-D racks; validated with Intel® Server Board SE7500W2

## Dimensions and Color

|        |                                   |
|--------|-----------------------------------|
| Height | 1.7"                              |
| Width  | 16.9"                             |
| Depth  | 23.9"                             |
| Color  | Black trim (black bezel optional) |

## Hard-Drive Support

|                    |  |
|--------------------|--|
| LVD SCSI Backplane | Fast, Ultra, Ultra80, Ultra160, and Ultra320 support for up to three one-inch hot-swap drives or two one-inch hot-swap drives and one slim-line CD-ROM/floppy or DVD/floppy module |
| ATA Backplane      | ATA/100 support for up to two one-inch cold-swap hard drives and one CD-ROM/floppy or DVD/floppy module  |

## System Cooling

Five 40mm fans mounted in the middle of the chassis and instrumented to provide RPM data for fan-failure prediction and detection and two 40mm power-supply fans

## Front Panel

|            |  |
|------------|--|
| LEDs       | Power, hard-drive status, network activity, system ID, and system status |
| Connectors | Video (switched video with rear video connector), USB port               |
| Buttons    | Power/Sleep, Reset, NMI, and ID  |

## Security

A mechanical lock on the optional front bezel and an intrusion switch that can be monitored by Intel® Server Management software

## Environment

**Ambient Temperature** Operating (system): +5°C to +35°C, with maximum change not to exceed 10°C; non-operating (system): -40°C to +70°C

**Relative Humidity** Non-operating: 90% @ +35°C non-condensing

**Acoustics** <55 dBA (rack-mount) in an idle state in a normal office environment (23°C)

**Electrostatic Discharge** 15 kV per Intel test specification

## Safety/EMC Regulatory Compliance (Class A)<sup>2</sup>

|                       |   |
|-----------------------|---|
| Argentina             | IRAM Certificate                            |
| Australia/New Zealand | AS/NZS 3260 (covered by CB report)          |
| Belarus               | Bellis Certificate                          |
| Canada                | UL 1950 – CSA 950 (complies with 73/23/EEC) |
| Europe/CE Mark        | EN60950 (complies with 73/23/EEC)           |
| International         | IEC60950 (CB Report and Certificate)        |
| Nordic Countries      | NEMKO/EMKO – TSE (74-SEC) 207/94            |
| Russia                | GOST 50377-92                               |
| U.S.                  | UL1950 – CSA 950 (UL and cUL)               |

## Electromagnetic Compatibility (EMC)

|                        |   |
|------------------------|---|
| Australia, New Zealand | AS/NZS 3548 (based on CISPR 22)   |
| Canada                 | ICES-003, Class A   |
| Europe/CE Mark         | EN55022, Class A, EN55024 and EN61000-3-2/-3-3 (complies with 89/336/EEC) |
| International          | CISPR 22, Class A   |
| Japan                  | VCCI, Class A   |
| Korea                  | RRL, MIC 1997-41 & 1997-42  |
| Russia                 | GOST 29216-91 & 50628-95  |
| Taiwan                 | CNS13438, Class A   |
| U.S.                   | FCC, Part 15, Class A   |

## Standard Power Supply

|                 |                                      |
|-----------------|--------------------------------------|
| AC Power Supply | 350 W PFC                            |
| AC Voltage      | 4.96 A at 115 VAC, 2.48 A at 220 VAC |
| +5 V            | 12 A max                             |
| +5 V Standby    | 2 A max                              |
| +12 V1          | 16 A sustained                       |
| +12 V2          | 16 A sustained                       |
| -12 V           | 0.5 A max                            |
| +3.3 V          | 16 A max                             |

## Recommended Configurations and Order Codes

The following table provides several suggested configurations for Intel® SE7500W2-based systems using the Intel® Server Chassis SR1300. Please see <http://www.intel.com/go/serverbuilder> for the most recent product updates.

|  | Intel® Server Chassis SR1300<br>1U System with Integrated SCSI | Intel® Server Chassis SR1300<br>1U System with Integrated ATA/100 RAID |
|--|--|--|
| Chassis Backplane (required) <sup>2</sup>                            | BCW1USBPWB   | BCW1UABPWB   |
| Intel® Server Board SE7500W2   | SWW2SCSI   | SWW2ATA  |
| Intel® Server Chassis SR1300   | KCW  | KCW  |
| 1U 350W Power Supply   | FXX350W  | FXX350W  |
| Chassis Spares Kit <sup>3</sup>                                      | FCWCHASSISKT   | FCWCHASSISKT   |
| Electronics Spares Kit <sup>4</sup>                                  | FCWELECTKT   | FCWELECTKT   |
| Intel® PRO/1000 XT Server Network Adapter <sup>4</sup> (low-profile) | PWLA8490XTL  | PWLA8490XTL  |
| Intel® RAID Controllers  | Yes <sup>5</sup>   | Yes <sup>5</sup>   |
| Locking Bezel  | ACWBEZBLACK  | ACWBEZBLACK  |
| RJ45 to DB9 Dongle Converter Kit                                     | AXXRJ45DB92  | AXXRJ45DB92  |
| Slide-Rail Kit   | AXX1U2URAIL  | AXX1U2URAIL  |
| Slim-Line CD-ROM/Floppy-Drive Module                                 | AXXCDFLOPPY  | AXXCDFLOPPY  |
| Slim-Line DVD/Floppy-Drive Module                                    | AXXDVDFLOPPY   | AXXDVDFLOPPY   |
| ICMB Board Kit   | AXX2ICMBKIT  | AXX2ICMBKIT  |

<sup>2</sup> Based on integration with a validated Intel server board and configured as outlined in the SR1300 Chassis Subassembly Installation Guide.

<sup>3</sup> Includes one drive carrier and cable(s).

<sup>4</sup> Contains SCSI cable, USB cable, flex cable, front-panel cable, mouse/keyboard dongle, two RJ45-to-DB9 serial dongles, baffle and ducting, fan module with five fans, retention mechanism, air dam, and screws.

<sup>5</sup> Contains front-panel board and light pipes, power-jumper board, and two PCI/PCI-X risers.

<sup>6</sup> Please visit <http://support.intel.com> for a complete list of validated Intel and third-party adapter cards.

For the most current product information on Intel® server building blocks, visit:  
[www.intel.com/go/serverbuilder](http://www.intel.com/go/serverbuilder)

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