



**Can a 1U rack-optimized server chassis provide the reliable high-density solutions my customers need?**

The Intel® Server Chassis SR1300 can provide your customers a reliable solution for building high-density rack-mount servers, including easily expandable storage and advanced thermal monitoring and cooling capabilities.

- Intel® Server Chassis SR1300 Product Brief



Designed for Intel® Server Board SE7501WW2, the Intel Server Chassis SR1300 accommodates dual Intel® Xeon™ processors and features two 64-bit PCI/PCI-X slots, one full-length, one low-profile.

## Intel® Server Chassis SR1300

Rack-optimized specifically for the Intel® Server Board SE7501WV2, 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, Support for Wide-Ranging Applications

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.

### Delivering Intel® Server Products Leadership Technologies

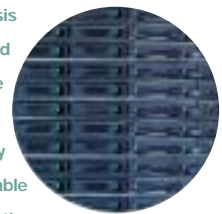
For an exceptional degree of reliability, availability, and serviceability the Intel Server Chassis SR1300 provides you and your customers a number of Intel Server Products Leadership Technologies. These cutting-edge technologies complement the capabilities of the most current processors and chipsets and boost the ability of a given server to address new applications and markets:

- **Intel® Active Airflow Control** provides chassis thermal and fan control to keep servers cool and quiet.
- **Intel® Drive Stabilization Technology** enhances drive reliability, longevity, and performance.
- **Intel® Drive Power Isolation** provides critical protection for hot-swap hard drives.
- **Intel® Light-Guided Diagnostics** improves serviceability and accelerates recovery.
- **Intel® Multi-Path Boot** makes systems resilient to even the most fundamental errors.
- **Intel® Power and Thermal Headroom** budgets power and thermal engineering for maximum performance.
- **Intel® Validation Stress Test Suite** helps to ensure data integrity on the latest high-performance servers.

For more information on Intel Server Products Leadership Technologies, please visit: [www.intel.com/go/serverbuilder](http://www.intel.com/go/serverbuilder)

The Intel Server Chassis SR1300 provides advanced thermal-monitoring and cooling capabilities for exceptional high-density reliability.

The Intel® Server Chassis SR1300 offers simplified integration and multiple configuration options for businesses that rely on scalable and adaptable rack-mount server solutions.



# Intel® Server Chassis SR1300



Optional backplane (ATA)

Optional backplane (SCSI)

Meticulous design, thorough validation, and extensive testing can mean less development work, higher quality, and faster time-to-market.

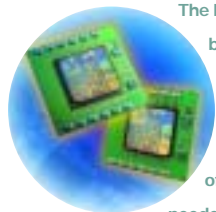
*Processor, server board, memory, and hard drives not included with chassis*

- 1. Two 64-bit/100MHz PCI/PCI-X riser cards
- 2. Five instrumented system-cooling fans
- 3. Chassis-intrusion and server-management capabilities
- 4. Enhanced front panel with video and USB ports
- 5. One flexible drive bay for hot-swap SCSI hard drive or slim-line CD-ROM/floppy or DVD/floppy module
- 6. Two hot-swap SCSI or two cold-swap ATA hard-drive bays
- 7. Single 350W PFC power supply



## 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



The Intel® Xeon™ processor, based on Intel® NetBurst™ microarchitecture and featuring Hyper-Threading Technology, offers the performance needed for demanding applications in rack-mount server environments.



Optional locking bezel (black)

# Intel® Server Chassis SR1300

## Features

## Benefits

Specifically designed for and validated with the Intel® Server Board SE7501WV2	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 320 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 hot-swap 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; two power-supply fans	Advanced cooling to support dual Intel® Xeon™ processors
Chassis-intrusion protection and support for Intel® Server Management software, including automatic health monitoring, proactive messaging, and post-issue diagnostics	Security and availability
350W PFC power supply	Ample power and availability for full 1U system integration, limited exposure to power surges, reduced waste
Multiple international regulatory approvals <sup>1</sup>	Faster development and qualification and reduced time to market
Optional locking front bezel	Prevention of unauthorized access to peripherals and control panel
Three-year limited warranty	Peace of mind

## Deliver industry-leading server technology and world-class customer support. With Intel, you can.



**Technology leadership.** Take advantage of Intel's 20 years of experience designing and engineering industry-leading server building blocks such as the Intel® Xeon™ processor.

**Unsurpassed quality.** Intel spends 10,000+ hours testing and validating every piece of an Intel server stack. Uncompromising quality standards translate into higher reliability, fewer repairs, and greater customer satisfaction.

**World-class technical support.** Intel offers 24x7 phone and Web-based technical support, Advanced Warranty Replacement, a three-year limited warranty, spares kits, and extensive technical training. Integrators also have access to a wealth of sales and marketing support in the form of sales tools, videos, and high-quality images for advertising. For more information on Intel server building blocks please visit:

[www.intel.com/go/serverbuilder](http://www.intel.com/go/serverbuilder)

**With Intel, you can give your customers access to the latest server technologies, exceptional quality, and highly responsive technical support.**



## 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 provide a highly reliable, available, and scalable server:



**Intel® Xeon™ Processors**, based on Intel® NetBurst™ microarchitecture and with Hyper-Threading Technology, can slice through the toughest business problems facing dynamic start-ups, large enterprises, and everything in between.



**Intel® Server Board SE7501WV2** provides superior performance for reliable and manageable high-density solutions. The Server Board SE7501WV2 features:

- Support for dual Intel® Xeon™ processors
- 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
- Optional dual-channel Ultra320 SCSI or dual-channel ATA/100 RAID



**Intel® Server Management** monitors key server components and helps to 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 Server Management is included with every boxed Intel Server Board SE7501WV2 at no additional cost.



**Intel® RAID Controllers** help to protect data, applications, and the server operating system from disk failures and are part of an affordable, high-performance line of Intel RAID products, all of them tested and validated for easy integration.



**Intel® PRO Server Adapters**, including Gigabit Ethernet server adapters, help to reduce bottlenecks and boost availability with industry-leading performance and advanced server features.

Intel building blocks are validated to work together, helping to save R&D, validation, and support expenses—and speed your time-to-market.

Use the Intel Server Chassis SR1300 to build the right solution for your customers. For example, the Server Chassis SR1300 is designed to support the Intel Server Board SE7501WV2 and provide you with the flexibility, performance, quality, and reliability you expect from Intel.



# Intel® Server Chassis SR1300 Specifications

## Form Factor

1U rack-mount server chassis for EIA Standard 310-D racks, validated with Intel® Server Board SE7501WV2

## Dimensions and Color

1.7" (height) x 16.9" (width) x 24" (depth) (chassis without handles);  
1.7" (height) x 18.9" (width) x 25.1" (depth) (chassis with handles);  
black trim

## Hard-Drive-Bay Support

**LVD SCSI Backplane** Fast, Ultra, Ultra80, Ultra160, and Ultra320 support for up to three one-inch hot-swap SCSI drives or two one-inch hot-swap SCSI 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 activity, network activity, system ID, and general system status

**Connectors** Video (switched video with rear video connector), USB port

**Buttons and Switches** 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: 95% @ +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 Compliance<sup>2</sup>

Argentina	IRAM Certificate
Canada	UL60950 – CSA 60950 (UL and cUL)
China	GB4943 (CCC Certification)
Europe, CE Mark	EN60950 (complies with 73/23/EEC)
Germany	GS License
International	IEC60950 (CB Report and Certificate)
Nordic Countries	EMKO-TSE (74-SEC) 207/94
Russia	GOST 50377-92
United States	UL60950 – CSA 60950 (UL and cUL)

## Electromagnetic Capability (EMC) (Class A)<sup>2</sup>

Australia, New Zealand	AS/NZS 3548 (based on CISPR 22)
Canada	ICES-003
China	GB9254 & GB17625 (CCC Certification)
Europe, CE Mark	EN55022: EN55024 & EN61000-3-2;-3-3 (complies with 89/336/EEC)
International	CISPR 22
Japan	VCCI
Korea	RRL, MIC 1997-41 & 1997-42
Russia	GOST 29216-91 & 50628-95
Taiwan	CNS13438
United States	FCC, Part 15

## Standard Power Supply

<b>AC Power Supply</b>	One fixed 350W PFC
<b>AC Voltage</b>	4.96A at 115V, 2.48A at 220V
+5V	12A max
+5V Standby	2A max
+12V1	16A sustained
+12V2	16A sustained
-12V	0.5A max
+3.3V	16A max

## Recommended Configurations and Order Codes

The following table provides several suggested configurations for Intel® Server Board SE7501WV2–based systems using the Intel® Server Chassis SR1300. For a complete list of spares and accessories, visit <http://support.intel.com/>.

Item	Intel® Server Chassis SR1300 1U System with Integrated SCSI	Intel® Server Chassis SR1300 1U System with Integrated ATA/100 RAID
<b>Chassis Backplane (required)<sup>1</sup></b>	BCW1USBPWB	BCW1UABPWB
<b>Intel® Server Board SE7501WV2</b>	SE7501WV2SCSI	SE7501WV2ATA
<b>Intel® Server Chassis SR1300 (power cord not included)</b>	KCW	KCW
<b>Intel® Server Chassis SR1300 (North American power cord included)</b>	KCWNA	KCWNA
<b>350W Power Supply (spare, this chassis ships with a 350W power supply)</b>	FXX350W	FXX350W
<b>Slide-Rail Kit</b>	AXX1U2URAIL	AXX1U2URAIL
<b>Locking Bezel</b>	ACWBEZBLACK	ACWBEZBLACK
<b>Slim-Line CD-ROM/Floppy Drive Module</b>	AXXCDFLOPPY	AXXCDFLOPPY
<b>Slim-Line DVD/Floppy Drive Module</b>	AXXDVDFLOPPY	AXXDVDFLOPPY
<b>ICMB Board Kit</b>	AXX2ICMBKIT	AXX2ICMBKIT
<b>RJ45 to DB9 Dongle Converter Kit (includes rear serial cable)</b>	AXXRJ45DB92	AXXRJ45DB92
<b>Chassis Spares Kit<sup>4</sup></b>	FCWCHASSISKT	FCWCHASSISKT
<b>Electronics Spares Kit<sup>5</sup></b>	FCWELECTKT	FCWELECTKT
<b>Intel® RAID Controllers</b>	Yes <sup>6</sup>	Yes <sup>6</sup>
<b>Intel® PRO/1000 XT Server Network Adapter<sup>6</sup> (low-profile)</b>	PWLA8490XTL	PWLA8490XTL

- When integrated as specified in the Intel Server Board SE7501WV2 integration guide. Please see <http://support.intel.com/support/motherboards/server/SE7501WV2> for details.
- Based on integration with a validated Intel Server Board and configuration as outlined in the SR1300 Chassis Subassembly Product Guide.
- Includes one drive carrier and cable(s).
- 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.
- Contains front-panel board and light pipes, power-jumper board, and two PCI/PCI-X risers.
- 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)

All products, dates, and figures specified are preliminary based on current expectations, provided for planning purposes only, and are subject to change without notice. Availability in different channels may vary.

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