



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.



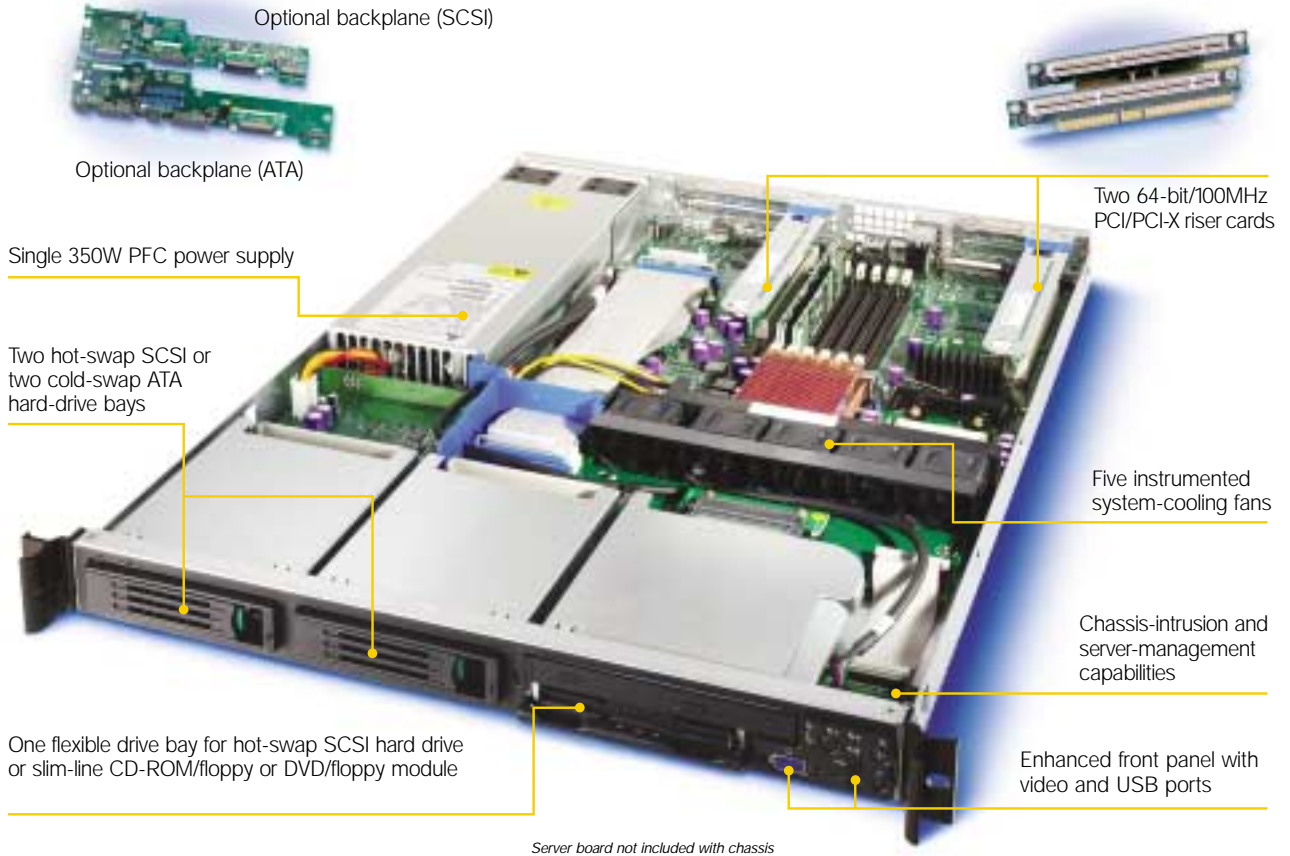
Features

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 ¹	Faster development and qualification and reduced time to market
Optional key-locked front bezel	Prevention of unauthorized access to peripherals and control panel

¹ 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



Optional Locking Bezel (black)

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

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: 95% @ +30°C non-condensing, not to exceed 10°C per hour
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)²

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 1U System with Integrated SCSI	Intel® Server Chassis SR1300 1U System with Integrated ATA/100 RAID
Chassis Backplane (required) ²	BCW1USBPWB	BCW1UABPWB
Intel® Server Board SE7500W2	SWW2SCSI	SWW2ATA
Intel® Server Chassis SR1300	KCW	KCW
1U 350W Power Supply	FXX350W	FXX350W
Chassis Spares Kit ³	FCWCHASSISKT	FCWCHASSISKT
Electronics Spares Kit ⁴	FCWELECTKT	FCWELECTKT
Intel® PRO/1000 XT Server Network Adapter ⁴ (low-profile)	PWLA8490XTL	PWLA8490XTL
Intel® RAID Controllers	Yes ⁵	Yes ⁵
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

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

³ Includes one drive carrier and cable(s).

⁴ 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.

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

⁶ 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

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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