Product Brief

- Designed for Intel® Server Board SE7500WV2
- Accommodates Dual Intel® Xeon™ Processors with 512KB Advanced Transfer Cache
- Features Seven Hot-Swap SCSI Drive Bays

Intel® Server Chassis SR2300

Innovative, 2U Rack-Optimized Server Chassis for Flexible High-Density Solutions

High-density rack-mount servers provide a rapidly growing solution to the challenges faced by businesses seeking to consolidate their front-end and general-purpose servers. This is largely because of their compact, rack-mount design, which saves space and simplifies the installation, operation, and maintenance of co-located systems. Read on to learn more about the new Intel® Server Chassis SR2300 and its role as one of the Intel® server building blocks that are helping businesses to meet such challenges.

Performance and Availability for High-Density Environments

Diverse Configurations Support Wide-Ranging Needs

Innovative and rack-optimized for the Intel® Server Board SE7500WV2, the Intel® Server Chassis SR2300 supports a variety of high-density system configurations with the latest server-chassis technology. The Server Chassis SR2300 includes two PCI/PCI-X risers, six one-inch drive bays for supporting hot-swap SCSI drives, and a seventh bay supporting either an additional SCSI drive or a slim-line CD-ROM/floppy or DVD/floppy drive module. For availability and reliability, the Server Chassis SR2300 is available in two configurations: one, with a single 480W power supply and the other, featuring a 500W hot-swap PFC 1+0 power supply with the option to add a second 500W power supply for redundancy. Both configurations provide premium cooling technology for support of two Intel® Xeon™ Processors with 512KB Advanced Transfer Cache.

Tool-Free Serviceability, Multipurpose Solutions

For ease of troubleshooting and maintenance, the Intel® Server Chassis SR2300 ships with instrumented components, multiple LED indicators, and front access to USB and video connectors. Installation and administration are also simplified thanks to the chassis' tool-free fan assembly, PCI/PCI-X riser assembly, front-panel board, and power-supply modules. All this makes the Intel® Server Chassis SR2300 ideal for such applications as Web hosting, application hosting, search engine, cache, VPN, proxy, e-mail, and file/print.

Features	Benefits
Specifically designed for and validated with the Intel® Server Board SE7500WV2	Simplified integration and full 2U benefits
Up to seven hot-swap Ultra160/Ultra320 SCSI hard-drive bays with up to 15K RPM support	Easily expandable storage capacity and SCSI integrity
Seventh bay for an additional hard drive or optional slim-line CD-ROM/floppy or DVD/floppy drive module	Several system-configuration options
One 3.5" full-height peripheral-drive bay	Space for additional peripherals such as a tape drive
Up to six PCI/PCI-X expansion slots on dual-peer PCI riser cards (three full-height, three low-profile)	Outstanding scalability
Front-access video and USB ports	Easy portable peripheral and video attachment (use of front-panel video switches rear video off)
Tool-free serviceability	Minimizes maintenance downtime
Intel® Server Management, including chassis intrusion, automatic health monitoring, proactive messaging, and post-issue diagnostics	Security and availability
Single 480W power supply or 500W 1+0 PFC power supply module with optional 500W power supply to enable redundancy	Ample power and availability for full 2U system integration, limited exposure to power surges
Advanced optional redundant cooling with multispeed system fans	Fault-tolerant system cooling ideal for high-density, rack-optimized environments
Multiple international regulatory approvals[1]	Reduced time to market
Optional locking bezel	Security

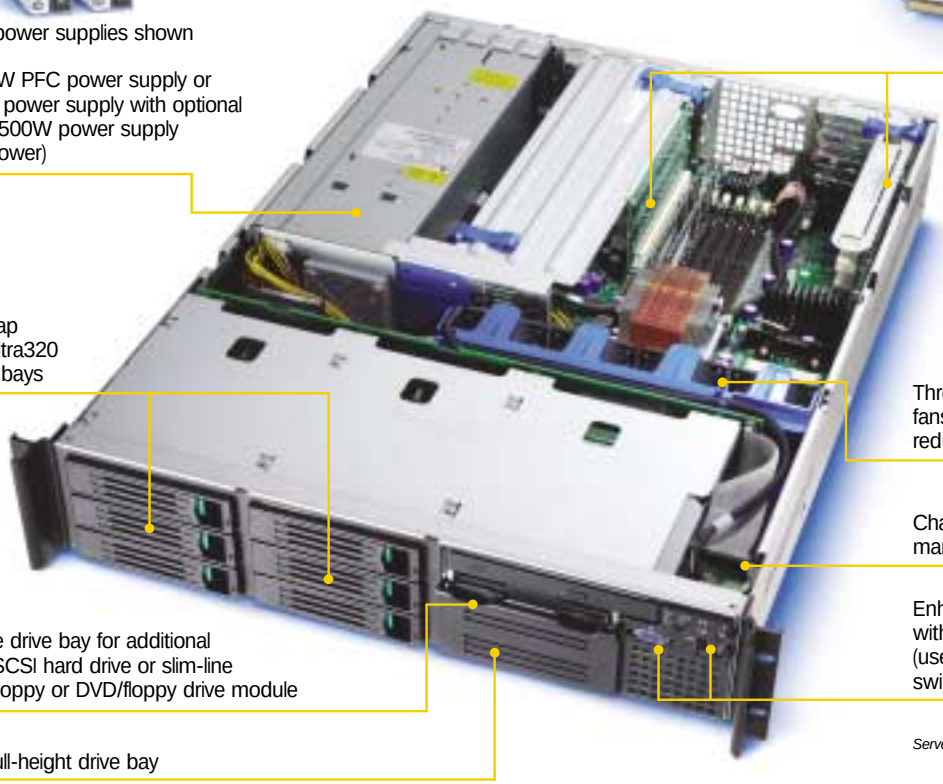
[1] When integrated as specified in the Intel® Server Board SE7500WV2 integration guide. Please see http://support.intel.com/support/motherboards/server/SE7500WV2 for details.

Intel® Server Chassis SR2300

500W power supplies shown

Single 480W PFC power supply or 500W 1+0 power supply with optional redundant 500W power supply (dual-line power)

Two riser cards with up to six (three full-height, three low-profile) PCI/PCI-X slots on dual-peer buses



Six hot-swap Ultra160/Ultra320 SCSI drive bays

Three instrumented system fans (fourth fan for optional redundant cooling)

Chassis intrusion and server-management capabilities

Enhanced front panel with video and USB ports (use of front-panel video switches rear video off)

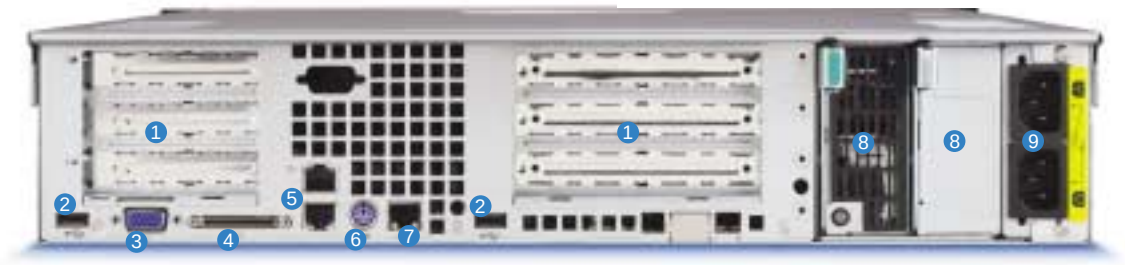
One flexible drive bay for additional hot-swap SCSI hard drive or slim-line CD-ROM/floppy or DVD/floppy drive module

One 3.5" full-height drive bay

Server board not included with chassis

Optional Locking Bezel (black)

Intel® Server Chassis SR2300 Rear Panel



Rear panel shown is for the Intel® Server Chassis SR2300 with 1+0 500W power supply

1. Six PCI/PCI-X Slots
2. Two USB Ports
3. Video Port (front-panel video switches rear video off)
4. 68-Pin SCSI Port
5. Two Gigabit Ethernet Ports
6. PS/2 Port
7. RJ45 Serial Port
8. 500W Hot-Swap 1+0 PFC Power Option (shown), 480W Power Supply Option (not shown)
9. Dual-Line Power Receptacles (dual-line receptacles with redundant power supply option only)

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 SR2300 with Intel® Server Building Blocks

Add the following Intel server building blocks to your Intel® Server Chassis SR2300 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; up to six add-in card slots on two riser cards
- Six DIMM sockets for up to 12 GB of dual interleaved DDR200/266 memory
- Advanced Intel® Server Management
- Ultra160 SCSI or ATA/100 RAID

Intel® Server Management monitors key server components and resolves many problems automatically with the help of integrated remote management, event alerting and logging, proactive fault management, and serial data/console redirection over LAN. Intel Server Management is included with every boxed Intel® Server Board SE7500WV2 at no additional cost.

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 industry-leading performance and advanced server features.

Intel® Server Chassis SR2300 Specifications

Form Factor	
2U rack-mount server chassis for EIA Standard 310-D racks, validated with Intel® Server Board SE7500WV2	

Dimensions and Color	
Height	3.04"
Width	16.93"
Depth	25.51"
Color	Black trim

Hard-Drive Support	
Drive Bays	Six one-inch hot-swap, one universal (for hot-swap drive CD-ROM/ floppy or DVD/floppy drive), one 3.5-inch full height
LVD SCSI Backplane	Ultra320/Ultra160 support for up to seven one-inch hot-swap hard drives or six one-inch hot-swap drives and one slim-line CD-ROM/floppy or DVD/floppy drive module

System Cooling	
Three 60mm fans mounted in the middle of the chassis and instrumented to provide RPM data for fan-failure prediction and detection	
480W Power Supply Configuration	One 80mm x 38mm fan
500W Power Supply Configuration	One 60mm x 38mm power-supply module fan

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

Front Panel	
Buttons and Switches	Power on/off (ACPI sleep) button, system reset button, system ID button, and tool-activated NMI switch
LEDs	Power, hard-drive activity, network activity, system ID, and general system status
Connectors	VGA Video Port, USB Port

Environment	
Ambient Temperature	Operating (system): +10°C to +35°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 an normal office environment (+/-23°C)
Electrostatic Discharge	+/-15k V per Intel test specification

Standard Power Supply	
AC Power Supply	One fixed 480W EPS (non-redundant option) or one 500W SSI TPS 1+0 (redundant option)
AC Voltage	6.7 A at 115V, 3.3 A at 220V
+5V	20 A max
+5V standby	2 A max
+12V1	18 A sustained
+12V2	18 A sustained
+3.3V	24 A max

Safety Compliance[2]	
Argentina	IRAM
Europe, CE Mark	EN60950 (complies with73/23/EEC)
International	IEC60950 (CB Report and Certificate)
Nordic Countries	NEMKO / EMKO – TSE (74-SEC) 207/94
Russia	GOST 50377-92
U.S., Canada	UL1950 CSA - 60950 (UL and cUL)

Electromagnetic Capability (EMC)[3]	
Australia, New Zealand	AS/NZS 3548 (based on CISPR 22)
Canada	ICES-003, Class A
Europe, CE Mark	EN55022 (Class A); EN55024 & 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

Recommended Configuration and Order Codes

The following table provides several suggested configurations for Intel, SE7500WV2-based systems using the Intel, Server Chassis SR2300. Please see www.intel.com/go/serverbuilder for the most recent product updates.

	Intel® Server Chassis SR2300 with Fixed Power Supply	Intel® Server Chassis SR2300 with 500W 1+0 Power Supply
Inte® Server Chassis SR2300	KSW480	KSW
Intel® Server Board SE7500WV2 with Integrated SCSI	SWV2SCSI	SWV2SCSI
Redundant 500W Power Supply	N/A	AXX2PSMODL500
Redundant Fan	ASWFAN	ASWFAN
Additional Hot-Swap Drive Carrier	FXX2DRVCARBLK	FXX2DRVCARBLK
Slide-Rail Kit	AXX1U2URAIL	AXX1U2URAIL
Locking Bezel	ASWBEZBLACK	ASWBEZBLACK
Slim-Line CD-ROM/Floppy Drive Module	AXXCDFLOPPY	AXXCDFLOPPY
Slim-Line DVD/Floppy Drive Module	AXXDVDFLOPPY	AXXDVDFLOPPY
RJ45 to DB9 Dongle Converter Kit	AXXRJ45DB92	AXXRJ45DB92
Tape-Drive Cable	ASWTAPECABLE	ASWTAPECABLE
Serial Cable	FSWCOM1CBL	FSWCOM1CBL
Chassis Spares Kit	FSWCHASSISKT	FSWCHASSISKT
Electronics Spares Kit	FSWELECTKT	FSWELECTKT
Intel® RAID Controllers[4]	Yes[4]	Yes[4]
Intel PRO/1000 XT Server Adapter[4] (low-profile)	PWLA8490XTL	PWLA8490XTL

[2] Safety compliance is based on integration with a validated Intel® Server Board and configuration as outlined in the SR2300 Chassis Subassembly Installation Guide.
[3] Class A EMC compliance is based on integration with a validated Intel® Server Board and configuration as outlined in the SR2300 Chassis Subassembly Installation Guide.
[4] 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

0602/NW&MM/DMW/MD/PP/20K

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