

Product Brief

Intel® Server Systems SR2520SAF, SR2520SAS, and SR2520SASX

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A Family of Rack-Optimized Server Systems Delivering Highly Integrated Solutions for Cost-Sensitive Customers



Product Overview

The Intel® Server Systems SR2520SAF, SR2520SAS, and SR2520SASX represent the latest generation of enterprise-level, rack-optimized system solutions from Intel Providing higher flexibility in data storage and security, these scalable, affordable systems are ideal for growing companies running high transaction database applications.

Compatible with the latest multi-core Intel® Xeon® processors¹ with a 667 MHz, 1066 MHz, or 1333 MHz front side bus, this family of systems supports five I/O slots. Designed for a variety of configurations, customers can choose the memory and storage solution that meets their needs best.

The rack-optimized systems from Intel provide flexible storage solutions including 3.5" SATA or SAS drives, as well as support for both fixed drives and hot-swap drives. The SR252OSAF features four fully buffered DIMM sockets and up to six fixed SATA drives. The SR252OSAS and SR252OSASX deliver both hot-swap and redundant power, with eight fully buffered DIMM sockets and up to six hot-swap SAS / SATA drives.

These systems, designed for space-constrained environments, are optimized in either a 2U with redundant power and hot-swap drives or a 2U with fixed power and fixed drives.

- The 2U fixed systems are designed for organizations running front-end Internet, Web-hosting, and HPC applications.
- The 2U hot-swap systems handle more demanding departmental database, datacenter, and other high-transaction applications.

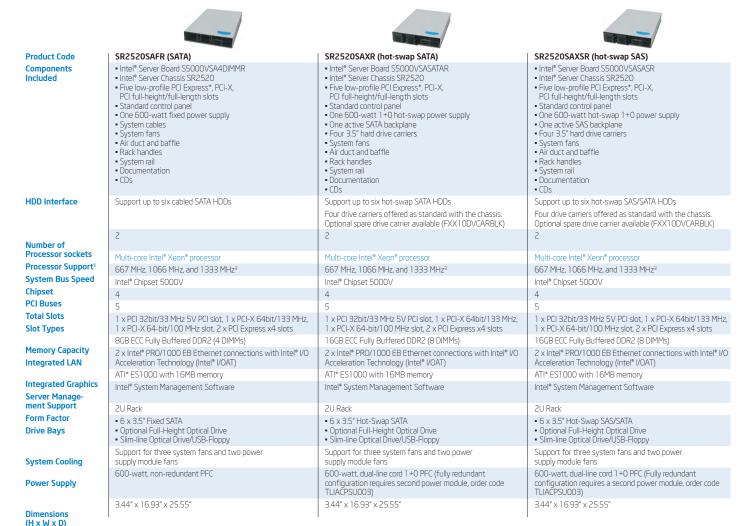
The Intel Server Systems SR2520SAF, SR2520SAS, and SR2520SASX each include the Intel® Server Essentials CD pack, a suite of software applications that are designed to help reduce the complexity of deploying and managing Intel Server Systems. The Intel Server Essentials CD pack is comprised of Intel® Deployment Assistant, a graphical tool aimed at simplifying the process of setting up and deploying an Intel® server and Intel® System Management Software and Intel® System Management Software and Intel® Server and Intel® Serve

Intel server, and Intel® System Management Software, a comprehensive software suite designed by Intel and Microsoft to provide local and remote sever management functionality specifically for small- and medium-sized businesses. The software included in the Intel® Server Essentials CD pack simplifies your server setup and can help you not only manage your servers but your entire IT infrastructure.

These integrated systems are designed for increased uptime and serviceability. Over 10,000 hours of testing and validation using other building blocks from Intel, in addition to third-party peripherals and memory, assures compatibility and reliability.



Intel® Server Systems SR2520SAF, SR2520SAS, and SR2520SASX Specifications



Features and Benefits

Balanced server platforms based on multi-core Intel® Xeon® processors offer the following:

- **Multi-core processing** multiplies server performance without increasing power consumption.
- Dual independent bus architecture enables dedicated data flow to each processor, maximizing system performance.
- Fully buffered DIMM memory increases capacity and memory bandwidth to keep pace with the processor and I/O performance enhancements.
- Intel® 64 architecture² extends the amount of available server memory.
- Intel® I/O Acceleration Technology (Intel® I/OAT) is a platform innovation that helps get network data to and from server applications faster, while consuming far fewer CPU cycles.
- Intel® Virtualization Technology³ turns a physical server into multiple systems (virtual machines) allowing multiple operating systems and applications to run inside a single platform.
- Intel® Execute Disable Bit4 reduces exposure to viruses and prevents harmful software from executing on the server or network.
- Enhanced Intel SpeedStep® Technology allows processors to adjust their operating speeds to meet varying performance needs, while balancing power consumption.



Optional Accessories and Spare Parts:

Intel Building Block	Product Name(s)	Order Code(s)
SR2520 Bezel Option	SR2520—Black bezel	ADRBEZBLACK
SR2520 Power Supply Option	SR2520—Second 600W redundant power supply	TLIACPSU003
SR2520 Drive Carrier	SR2520—Black 3.5" hot-swap drive carrier	FXX10DVCARBLK
Intel® RAID Options ⁵	Intel® RAID Controller 8-Port SATA 3.0 Gbps Intel® RAID Controller 6-Port SATA Intel® RAID Controller 8-Port SAS/SATA Intel® RAID Activation Key for embedded RAID 52	SRCS28X SRCS16 SRCSAS18E AXXRAKSW5

Technical Specifications

System Memory

Capacity

Four to eight Fully Buffered DIMM sockets for up to 16GB of registered ECC DDR2 533 or 667 memory

Reliability Features

Corrects single-bit errors, detects double-bit errors (using ECC memory), and supports Intel® x4 Single Device Data Correction (Intel® x4 SDDC), memory mirroring, memory sparing

Intel® Server Management

Integrated Management Type

IPMI 2.0-compliant onboard platform instrumentation

Software Support

Intel® System Management Software

Supported Operating Systems

Microsoft* Windows* Server 2003 Enterprise Edition, Microsoft Windows 2000 Advanced Server, Red Hat* Linux* Enterprise 4.0, SuSE Linux* Enterprise Server, and Novell* NetWare* 6.5

System BIOS

Type
4MB Flash EEPROM with EFI* BIOS, Multiboot BBS (BIOS Boot Specification) 1.4-compliant

Special Features

Plug and play, IDE drive autoconfigure, SMBIOS 2.3, ECC/parity support, multilingual support, enabled for rolling/online BIOS updates

CMOS clear, password clear, BIOS bank select, BMC boot block write protect, serial port B select

Front-Panel Features

SR2520 systems: Hard-drive activity LED, system status LED, power/sleep switch, 2 server network connection LEDs, System ID LED, and a bootable USB 2.0 connection

SR1550 system: Power LED, system status LED, power/sleep switch, NMI switch, System ID LED, and a bootable USB 2.0 connection

Mechanical

Board Style

Board Size

12" x 13" (305 mm x 330 mm)

Environment

Ambient Temperature

Operating (system): +10°C to +35°C; Non-operating/storage (system): -40°C to +70°C ambient

Relative Humidity

Non-operating: 95%, non-condensing at +30°C

Safety and EMC Regulatory Compliance (Class A)

(EMC Regulatory Compliance is based on a board configured in an Intel host system in which Intel tested the board and found it compliant.) RoHS (Restriction of Hazardous Substances) compliant with server exemption.

Region	Certification Safety and/or EMC	Regulatory Mark Safety and/or EMC
Australia/ New Zealand	ACA, MED	C-Tick
Canada	UL/Industry Canada	cURus/ICES
Europe	European Directives	CE
Germany	GS	GS
International	CB Report / CISPR	No legal requirements
Japan	VCCI (Verification only)	No legal requirements
Когеа	RRL	MIC
Taiwan	BSMI DOC	BSMI
United States	UL / FCC (Verification only)	cURus











To build your system and get more details on Intel server configurations visit: www.intel.com/go/serverconfigurator

For more details on the Intel® Server Systems SR2520SAF, SR2520SAS, and SR2520SASX visit: www.intel.com/design/servers/platforms/sr2500SAF/index.htm

For more information on how to make the Intel® Server Systems SR2520SAF, SR2520SAS, and SR2520SASX part of your server environment, please contact an Intel® Channel Partner Program participant.

¹ Refer to http://support.intel.com/support/motherboards/server/s5000vsa for up-to-date details on processors supported by each server board.

² 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate

(including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Intel® Virtualization Technology requires a computer system with an enabled Intel® processor, BIOS, virtual machine monitor (VMM), and for some uses, certain platform software enabled for it.

Functionality, performance or other benefits will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled BIOS and VMM applications are

currently in development.

currently in development.

4 Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

5 RAID 5 available by adding the AXXRAKSW5 activation key.

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