Intel® Server Systems SR1530SH and SR1530HSH

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

Product Overview

The Intel® Server Systems SR1530SH and SR1530HSH represent the latest generation of rack-optimized system solutions from Intel and the follow-on of platforms SR1530AH, SR1530AHLX and SR1530HAHLX. Providing higher flexibility in data storage and security, these scalable, affordable systems benefit growing companies running Web hosting, HPC applications, and other high-transactional computing solutions.

The new value rack-optimized 1U systems are optimized in either a 1U with fixed drives or a 1U with hot-swap drives support.
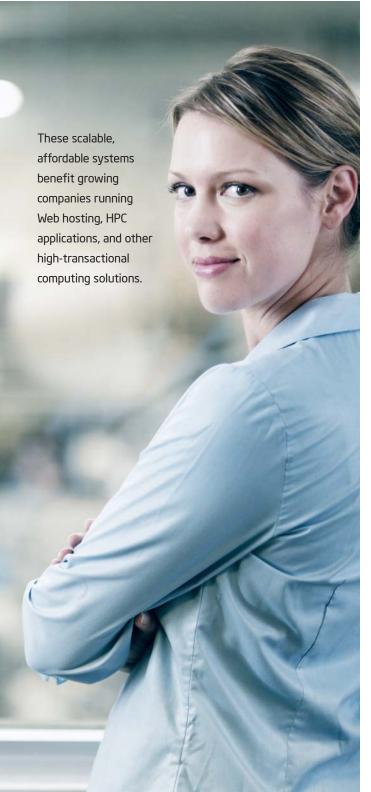
- Intel® Server System SR1530SH support up to two fixed 3.5" SATA drives.
- Intel® Server System SR1530HSH support up to three hot-swap 3.5" SATA drives.

With a 20" depth, the Intel Server System SR1530SH is ideal for space-constrained environments. Web farms, clusters, and appliance designs can take advantage of the unique, shorter chassis length.

Both systems 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 2.0, a comprehensive software suite designed by Intel and Microsoft* to provide local and remote server management functionality specifically for small- and medium-sized businesses. The software included in the Intel Server Essentials CD pack simplifies server setup and can help you not only manage your servers but your entire IT infrastructure.

These integrated systems are also designed for increased uptime and tool-less serviceability. Over 10,000+ hours of testing and validation were done, not only with other building blocks from Intel, but also with third party peripherals and memory to assure compatibility and reliability.

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System Specifications

	Intel® Server System SR1530SH	Intel® Server System SR1530HSH
System		
Components Included	• Intel® Server Board S3000SH L SKU • Intel® Server Chassis SR1530 • One PCI Express* riser slot support • Standard control panel • One 350-watt fixed power supply • Pre-routed cables • System blowers and PCI fan • Air duct and baffle • System rail • Slim-line DVD-ROM bay • Documentation	• Intel® Server Board S3000SH L SKU • Intel® Server Chassis SR1530H • One PCI Express* riser slot support • Standard control panel • One 350-watt fixed power supply • One passive SATA backplane • Three 3.5" hard drive carriers • Pre-routed cables • System blowers • Air duct and baffle • System rail • Slim-line DVD-ROM bay • Documentation
HDD Interface	Support up to two cabled SATA HDDs	Support up to three hot-swap SATA HDDs
Number of Processor Sockets	1	1
Processor Support[1]	Multi-Core Intel® Xeon® Processor 3200/3000 Sequence 45 nm Intel® Core 2 Processor family	Multi-Core Intel® Xeon® Processor 3200/3000 Sequence 45 nm Intel® Core 2 Processor family
System Bus Speed	800/1066/1333MHz	800/1066/1333MHz
Chipset	Intel® 3200 Chipset	Intel® 3200 Chipset
PCI Buses	4	4
Total Slots	1	1
Slot Types	1 x PCI Express x8 slot	1 x PCI Express x8 slot
Memory Capacity	Four ECC DDR2 667/800 SDRAM DIMM sockets for up to 8 GB of memory	Four ECC DDR2 667/800 SDRAM DIMM sockets for up to 8 GB of memory
Integrated LAN	Two Intel ® Gigabit Ethernet connections	Two Intel ® Gigabit Ethernet connections
Integrated Graphics	ServerEngines* with 32MB memory	ServerEngines* with 32MB memory
Server Management Support	iBMC with IPMI 2.0 support	iBMC with IPMI 2.0 support
Form Factor	1U Rack	1U Rack
Drive Bays	2 x 3.5" Fixed SATA drive bays Optional slim-line optical drive	3 x 3.5" Hotswap SATA drive bays Optional slim-line optical drive
System Cooling	Two fixed cooling blowers with ducting and a PCI fan	Two fixed cooling blowers with ducting
Power Supply	350-watt, non-redundant PFC	350-watt, non-redundant PFC
Dimensions (H x W x D)	1.7" x 16.93" x 20"	1.7" x 16.93" x 25.51"

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

Features and Benefits

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

- Multi-core processing multiplies server performance by doubling processing ability on a single chip, without increasing power consumption.

- Intel® 64 architecture[2] extends the amount of available server memory.

- Intel® Virtualization Technology (Intel® VT)[3] turns a physical server into multiple systems (virtual machines) allowing multiple operating systems and applications to run inside a single platform.

- Execute Disable Bit[4] 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)
Optional Drives	Slim-line SATA DVD ROM	AXXSATADVDROM
	Slim-line SATA DVD+/-RW ROM	AXXSATADVDRWROM
Rack Options	Fixed Mount Bracket Kit	AXXBRACKETS
	1U Black Bezel for SR1530	AHJBEZBLACK
	1U Black Bezel for SR1530H	ADWBEZBLACK
	PCI Express* Riser	ASHPCIEUP
Intel® RAID Options	Intel® RAID Controller Modules	SRCSASJV
		SRCSASRB
		SRCSATAWB
Chassis Spares	Spare 350W Power Supply	FHJ350WPS
	Fixed Product Maintenance Kit	FHJFIXPMKIT
	Blower/Fan Kit	FHJBLOWER

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[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.

[3] Intel® Virtualization Technology (Intel® VT), Intel® Trusted Execution Technology (Intel® TXT), and Intel® 64 architecture require a computer system with a processor, chipset, BIOS, enabling software and/or operating system, device drivers and applications designed for these features. Performance will vary depending on your configuration. Contact your vendor for more information.

[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.

Technical Specifications

System Memory

Capacity

Four DIMM sockets for up to 8GB of un-buffered
ECC/non-ECC DDR2 667 or 800 memory

Reliability Features

Reliability features: corrects single-bit errors,
detects double-bit errors (using ECC memory)

Intel® Server Management

Integrated Management Type

iBMC with IPMI 2.0 support

Software Support

Intel® System Management Software 2.0

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

Mechanical

Board Style

SSI ATX

Board Size

12" x 9.6" (305 mm x 244 mm)

Environment

Ambient Temperature

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

Relative Humidity

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

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

For more details on Intel® Server Systems SR1530SH/SR1530HSH, visit: www.intel.com/design/servers/platforms/sr1530SH/index.htm

For more information on Intel® Server Products, visit: www.intel.com/go/serverproducts

For more information on how to make the Intel® Server Systems SR1530SH and SR1530HSH part of your server environment, please contact an Intel® Channel Partner Program participant.