The Intel® Server Systems SR1530AH, SR1530AHLX, and SR1530HAHLX

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

Product Overview

The Intel® Server Systems SR1530AH, SR1530AHLX, and SR1530HAHLX represent the latest generation of rack-optimized system solutions from Intel. 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 SR1530AH/SR1530AHLX support up to two fixed 3.5" SATA drives.

- Intel® Server System SR1530HAHLX support up to three hot-swap 3.5" SATA drives.

With a 20" depth, the Intel Server Systems SR1530AH and SR1530AHLX are ideal for space-constrained environments. Web farms, clusters, and appliance designs can take advantage of the unique, shorter chassis length.

All three systems include the Intel® Server Essentials CD pack, a suite of software applications designed to help reduce the complexity of deploying and managing Intel Server Systems. Intel® Deployment Assistant, a graphical tool aimed at simplifying the process of deploying an Intel server, is included in the Intel Server Essentials CD pack. Intel® System Management Software, a comprehensive software suite designed to provide local and remote server management functionality for businesses of all sizes, is also part of the CD pack.

These integrated systems are designed for increased up-time 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.

System Specifications

System	Intel® Server System SR1530AH	Intel® Server System SR1530AHLX	Intel® Server System SR1530HAHLX

Components Included	• Intel® Server Board S3000AH
	• 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 CD-ROM bay
	• Documentation
		• Intel® Server Board S3000AHLX
		• Intel® Server Chassis SR1530
		• One Intel® Adaptive Slot w/PCI Express*
		  or PCI-X 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 CD-ROM bay
		• Documentation
			• Intel® Server Board S3000AHLX
			• Intel® Server Chassis SR1530H
			• One Intel® Adaptive Slot w/PCI Express*
			  or PCI-X 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 CD-ROM bay
			• Documentation

HDD Interface	Support up to two cabled SATA HDDs	Support up to two cabled SATA HDDs	Support up to three hot-swap SATA HDDs
Number of Processor Sockets	1	1	1
Processor Support[1]	Multi-Core Intel® Xeon® Processor 3000 Sequence	Multi-Core Intel® Xeon® Processor 3000 Sequence	Multi-Core Intel® Xeon® Processor 3000 Sequence
System Bus Speed	800 MHz and 1066 MHz	800 MHz and 1066 MHz	800 MHz and 1066 MHz
Chipset	Intel® 3000 Chipset	Intel® 3000 Chipset	Intel® 3000 Chipset
PCI Buses	3	3	3
Total Slots	1	1	1
Slot Types	1 x PCI Express x8 slot	1 x Intel Adaptive Slot w/PCI Express x8 or PCI-X 133 MHz support	1 x Intel Adaptive Slot w/PCI Express x8 or PCI-X 133 MHz support
Memory Capacity	Four ECC DDR2 533/667 SDRAM DIMM sockets for up to 8 GB of memory	Four ECC DDR2 533/667 SDRAM DIMM sockets for up to 8 GB of memory	Four ECC DDR2 533/667 SDRAM DIMM sockets for up to 8 GB of memory
Integrated LAN	1 x Intel® 82573E Gigabit Ethernet connections, 1 x Intel® 8254PI Gigabit Ethernet connections	1 x Intel® 82573E Gigabit Ethernet connections, 1 x Intel® 8254PI Gigabit Ethernet connections	1 x Intel® 82573E Gigabit Ethernet connections, 1 x Intel® 8254PI Gigabit Ethernet connections
Integrated Graphics	ATI* ES1000 with 16MB memory	ATI* ES1000 with 16MB memory	ATI* ES1000 with 16MB memory
Server Management Support	Intel® System Management Software	Intel® System Management Software	Intel® System Management Software
Form Factor	1U Rack	1U Rack	1U Rack
Drive Bays	2 x 3.5" Fixed SATA Optional slim-line optical drive	2 x 3.5" Fixed SATA Optional slim-line optical drive	3 x 3.5" Hot-Swap SATA Optional slim-line optical drive
System Cooling	Two fixed cooling blowers with ducting and a PCI fan	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	350-watt, non-redundant PFC
Dimensions (H x W x D)	1.7" x 16.93" x 20"	1.7" x 16.93" x 20"	1.7" x 16.93" x 25.51"

Features and Benefits

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

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

- **Dual independent bus architecture** enables dedicated data flow to each processor, maximizing system performance.

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

- **Intel® Virtualization Technology**[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 CD-ROM Drive	AXXSCD
	Slim-line DVD-ROM Drive	AXXDVDROM
Rack Options	Fixed Mount Bracket Kit	AXXBRACKETS
	1U Black Bezel	AHJBEZBLACK
	PCI Express* Riser	AAHPCIEUP
	PCI-X Riser	AAHPCIXUP
Intel® RAID Options	Intel® RAID Controller Modules	SRCS28X
		SRCS16
Chassis Spares	Spare 350W Power Supply	FHJ350WPS
	Fixed Product Maintenance Kit	FHJFIXPMKIT
	Blower/Fan Kit	FHJBLOWERFAN

Technical Specifications

System Memory

Capacity
Four DIMM sockets for up to 8GB of unbuffered ECC/non-ECC DDR2 533 or 667 memory

Reliability Features
Corrects single-bit errors, detects double-bit errors (using ECC memory)

Intel® Server Management

Integrated Management Type
Intel® Active Management Technology

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

Mechanical

Board Style
SSI ATX

Board Size
12" x 9.6" (305 mm x 244 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
Korea	RRL	MIC
Taiwan	BSMI DOC	BSMI
United States	UL / FCC (Verification only)	cURus

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

For more details on the Intel® Server Systems SR1530AH, SR1530AHLX, and SR1530HAHLX please see: support.intel.com/support/motherboards/server/s3000ah

For more information on how to make the Intel® Server Systems SR1530AH, SR1530AHLX, and SR1530HAHLX part of your server environment, please contact an Intel® Channel Partner Program participant.

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

[2] Intel® 64 requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel 64. Processor will not operate (including 32-bit operation) without an Intel 64-enabled BIOS. Performance will vary depending on your hardware and software configurations. See www.intel.com/info/em64t for more information including details on which processors support Intel® 64 or consult with your system vendor for more information.

[3] 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.

[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.

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