



## Product Brief

Intel® Server Systems  
SR1530CL, SR1530HCL,  
and SR1530HCLS based  
on Intel® Server Board  
S5000VCLR

# Intel® Server Systems SR1530CL, SR1530HCL, and SR1530HCLS

## A Family of Value Rack-Optimized Integrated Server Systems Designed for Flexible, High-Density Server Solutions



### Product Overview

The Intel® Server Systems SR1530CL, SR1530HCL, and SR1530HCLS are designed for environments where processing power, reliable memory infrastructure, and redundant networking are required.

These new value rack-optimized 1U systems provide the feature sets needed for Web-hosting, HPC applications, and other high-transactional computing, at an affordable price point. Each server system supports an optional slim line CD or DVD drive along with flexible storage options that meet a variety of needs:

- The SR1530CL supports up to two fixed 3.5" SATA drives.
- The SR1530HCL accommodates up to three hot swap 3.5" SATA drives.
- The SR1530HCLS handles up to three 3.5" SAS drives.

With a 20" depth, the SR1530CL is ideal for space-constrained environments. Web farms, clusters, and appliance designs can take advantage of the unique, shorter chassis length.

The Intel Server Systems SR1530CL, SR1530HCL, and SR1530HCLS 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, 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 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 SR1530CL, SR1530HCL, and SR1530HCLS Specifications



### Product Codes

### Components Included

### HDD Interface

### Number of Processor Sockets

### Processor Support<sup>1</sup>

### System Bus Speed

### Chipset

### PCI Buses

### Total Slots

### Slot Types

### Memory Capacity

### Integrated LAN

### Integrated Graphics

### Server Management Support

### Form Factor

### Drive Bays

### System Cooling

### Power Supply

### Dimensions (H x W x D)

### SR1530CLR (SATA)

- Intel® Server Board S5000VCLR
- Intel® Server Chassis SR1530
- One riser card supporting two PCI slots (LP PCI-E x8 and FH/ML PCI-X 133)
- Pre-routed cables
- 400-watt fixed power supply
- Two fixed 3.5" SATA hard drives
- Basic Rail kit
- Two blowers and system fan
- Air duct and baffle
- Slim-line CD-ROM bay
- Documentation

Fixed SATA

2

Multi-core Intel® Xeon® processor

1066 MHz and 1333 MHz

Intel® Chipset 5000V

4

2

FH/ML PCI-X 133, low-profile PCI Express\* x8

12GB ECC fully-buffered DDR2 (6 DIMMs)

2 x Intel® PRO/1000 Gigabit (GbE) Ethernet connections with Intel® I/O Acceleration Technology (Intel® I/OAT)

ATI\* with 16MB memory

Intel® System Management Software

1U Rack

2 x 3.5" fixed SATA  
Optional slim-line optical Drive

Two fixed cooling blowers with ducting and a PCI fan

400-watt, non-redundant PFC

1.703" x 16.93" x 20.00"

### SR1530HCLR (Hot-Swap SATA)

- Intel® Server Board S5000VCLR
- Intel® Server Chassis SR1530H
- One riser card supporting two PCI slots (LP PCI-E x8 and FH/ML PCI-X 133)
- Pre-routed cables
- 400-watt fixed power supply
- Three hot-swap 3.5" SATA hard drives
- Basic Rail kit
- Two blowers and system fan
- Air duct and baffle
- Slim-line CD-ROM bay
- Documentation

Hot-swap SATA

2

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FH/ML PCI-X 133, low-profile PCI Express\* x8

12GB ECC fully-buffered DDR2 (6 DIMMs)

2 x Intel® PRO/1000 Gigabit (GbE) Ethernet connections with Intel® I/O Acceleration Technology (Intel® I/OAT)

ATI\* with 16MB memory

Intel® System Management Software

1U Rack

3 x 3.5" SATA  
Optional slim-line optical Drive

Two fixed cooling blowers with ducting

400-watt, non-redundant PFC

1.703" x 19.93" x 25.51"

### SR1530HCLS (Hot-swap SAS)

- Intel® Server Board S5000VCLR
- Intel® Server Chassis SR1530H
- One riser card supporting two PCI slots (LP PCI-E x8 and FH/ML PCI-X 133)
- Pre-routed cables
- 400-watt fixed power supply
- Three hot-swap 3.5" SAS hard drives
- Basic Rail kit
- Two blowers and system fan
- Air duct and baffle
- Slim-line CD-ROM bay
- Documentation

Hot-swap SAS

2

Multi-core Intel® Xeon® processor

1066 MHz and 1333 MHz

Intel® Chipset 5000V

4

2

FH/ML PCI-X 133, low-profile PCI Express\* x8

12GB ECC fully-buffered DDR2 (6 DIMMs)

2 x Intel® PRO/1000 Gigabit (GbE) Ethernet connections with Intel® I/O Acceleration Technology (Intel® I/OAT)

ATI\* with 16MB memory

Intel® System Management Software

1U Rack

3 x 3.5" SAS  
Optional slim-line optical Drive

Two fixed cooling blowers with ducting

400-watt, non-redundant PFC

1.703" x 16.93" x 25.51"

## 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 architecture<sup>2</sup>** extends the amount of available server memory.
- **Intel® I/O Acceleration Technology (Intel® I/OAT)** helps move network data to and from server applications faster, while consuming far fewer CPU cycles.
- **Intel® Virtualization Technology<sup>3</sup>** turns a physical server into multiple systems (virtual machines) which allows multiple operating systems and applications to run inside a single platform.
- **Execute Disable Bit<sup>4</sup>** reduces exposure to viruses and prevents harmful software from executing on the server or network.
- **Enhanced Intel SpeedStep® Technology** allows processors to adjust 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)
<b>Optional Drives</b>	Slim-line CD drive	AXXSCD
	Slim-line DVD ROM	AXXDVDROM
<b>Rack Options</b>	Fixed Mount Bracket Kit	AXXBRACKETS
	Tool-less RACK Mount Kit (supports Cable Management Arm)	AXXHERAIL
	Cable Management Arm	AXXRACKARM
	1 U Black Bezel	AHJBEZBLACK
<b>Intel® RAID Options</b>	Intel® RAID Controller Modules	SRCSAS18E SRCSAS144E
	<b>Chassis Spares</b>	Spare 400W Power Supply
Fixed Product Maintenance Kit		FHJFIXPMKIT
Blower/Fan Kit		FHJBLOWER

## Technical Specifications

### System Memory

#### Capacity

Six fully-buffered DIMM sockets for up to 12 GB of registered ECC DDR2 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  
Intel® Deployment Assistant

### 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

8Mb 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

### Jumpers

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

### Mechanical

#### Board Style

CEB (Compact Electronics Bay)

#### Board Size

10.5" x 12" (266.7 mm x 304.7 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
<b>Australia/ New Zealand</b>	ACA, MED	C-Tick
<b>Canada</b>	UL/Industry Canada	cURus/ICES
<b>Europe</b>	European Directives	CE
<b>Germany</b>	GS	GS
<b>International</b>	CB Report / CISPR	No legal requirements
<b>Japan</b>	VCCI (Verification only)	No legal requirements
<b>Korea</b>	RRL	MIC
<b>Taiwan</b>	BSMI DOC	BSMI
<b>United States</b>	UL / FCC (Verification only)	cURus



CANADA ICES-003 CLASS A

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

For more details on the Intel® Server System SR1530CL visit: [www.intel.com/design/servers/platforms/SR1530HCLS/index.htm](http://www.intel.com/design/servers/platforms/SR1530HCLS/index.htm)

For more information on how to make the Intel® Server System SR1530CL part of your server environment, please contact an Intel® Channel Partner Program participant.

<sup>1</sup> Refer to <http://support.intel.com/support/motherboards/server/s5000VCL> for up-to-date details on processors supported by each server board.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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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