



Product Brief

Intel® Server Systems
SR1530CL / SR1530HCL /
SR1530HCLS based
on Intel® Server Board
S5000VCL

The Intel® Server Systems SR1530CL / SR1530HCL / SR1530HCLS

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



Product Overview

The SR1530HC, 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.

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 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.



System Specifications



System

Components Included

Intel® Server System SR1530CL

- Intel® Server Board S5000VCL
- 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

Intel® Server System SR1530HCL

- Intel® Server Board S5000VCL
- 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

Intel® Server System SR1530HCLS

- Intel® Server Board S5000VCL
- 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

HDD Interface

Fixed SATA

Hot-swap SATA

Hot-swap SAS

Number of Processor Sockets

2

2

2

Processor Support¹

Multi-core Intel® Xeon® processor

Multi-core Intel® Xeon® processor

Multi-core Intel® Xeon® processor

System Bus Speed

1066 MHz and 1333 MHz

1066 MHz and 1333 MHz

1066 MHz and 1333 MHz

Chipset

Intel® Chipset 5000V

Intel® Chipset 5000V

Intel® Chipset 5000V

PCI Buses

4

4

4

Total Slots

2

2

2

Slot Types

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

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

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

Memory Capacity

12GB ECC fully-buffered DDR2 (6 DIMMs)

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Integrated LAN

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

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Integrated Graphics

ATI* with 16MB memory

ATI* with 16MB memory

ATI* 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

3 x 3.5" SATA
Optional slim-line optical Drive

3 x 3.5" SAS
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 and a PCI fan

Power Supply

400-watt, non-redundant PFC

400-watt, non-redundant PFC

400-watt, non-redundant PFC

Dimensions (H x W x D)

1.703" x 16.93" x 20.00"

1.703" x 19.93" x 25.51"

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 by increasing processing ability on a single chip, 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® 64²** 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 Technology³** turns a physical server into multiple systems (virtual machines) which allows multiple operating systems and applications to run inside a single platform.
- **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 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 drive	AXXSCD
	Slim-line DVD ROM	AXXDVROM
Rack Options	Fixed Mount Bracket Kit	AXXBRACKETS
	Tool-less RACK Mount Kit (supports Cable Management Arm)	AXXHERAIL
	Cable Management Arm	AXXRACKARM
	1 U Black Bezel	AHJBEZBLACK
Intel® RAID Options	Intel® RAID Controller Modules	SRCSAS18E SRCSAS144E
	Chassis Spares	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
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



CANADA ICES-003 CLASS A

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 System SR1530CL please see: <http://support.intel.com/support/motherboards/server/s5000VCL>

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.

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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