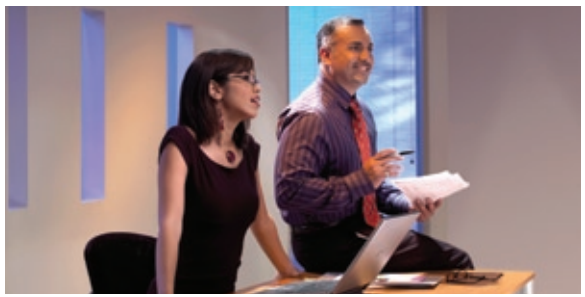
Product Brief

Intel® Server System SR1530CL based on Intel® Server Board S5000VCL

The Intel® Server System SR1530CL

A Value Rack-Optimized Integrated Server System Designed for Flexible, High-density Server Solutions



Product Overview

This is Intel's latest enterprise-level, rack-optimized value system level solution where processing power, reliable memory infrastructure, and redundant networking are required elements for entry level server infrastructures.

Designed for entry level system infrastructures, this value rack-optimized 1U system from Intel provides the feature set needed for web-hosting, HPC applications and other high-transactional applications at an affordable price point. With flexible storage solutions supporting up to two fixed 3.5" SATA drives and optional slim-line CD or DVD drives, this integrated system is ideal for space-constrained environments such as web farms, clusters and appliance designs that can take advantage of this unique shorter chassis length.

The Intel® Server System SR1530CL includes 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 deploying an Intel server, and Intel® System Management Software, a comprehensive software suite designed to provide local and remote server management functionality for businesses of all sizes. This integrated system is 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.

System Specifications

System	**Intel® Server System SR1530CL**
Components Included	▪ Intel® Server Board S5000VCL ▪ Intel® Server Chassis SR1530 ▪ One riser card supporting 2 PCI slots (LP PCI-E x8 and FH/ML PCI-X 133) ▪ Pre-routed cables ▪ 400-watt fixed power supply ▪ Two fixed 3.5" hard drives ▪ System fans ▪ Air duct and baffle ▪ Slim-line CDROM Bay ▪ Documentation
HDD Interface	**SR1530CL:** fixed SATA
Number of Processor Sockets	2
Processor Support[1]	Multi-core Intel® Xeon® processor
System Bus Speed	1066 MHz and 1333 MHz
Chipset	Intel® Chipset 5000V
PCI Buses	4
Total Slots	2
Slot Types	FH/ML PCI-X 133
Memory Capacity	12GB ECC Fully Buffered DDR2 (6 DIMMs)
Integrated LAN	2 x Intel® PRO/1000 EB Ethernet connections with Intel® I/O Acceleration Technology (Intel® I/OAT)
Integrated Graphics	ATI* with 16MB memory
Server Management Support	Intel® System Management Software
Form Factor	1U Rack
Drive Bays	2 x 3.5" fixed SATA Optional slim-line Optical Drive
System Cooling	Two fixed cooling blowers with ducting and a PCI fan
Power Supply	400-watt, non-redundant PFC
Dimensions (H x W x D)	1.703" x 16.93" x 20.00"

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.
- **Fully buffered DIMM memory** increases capacity and memory bandwidth to keep pace with the processor and I/O performance enhancements.
- **Intel® Extended Memory 64 Technology**[2] 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 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 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	AXXVCDROM
Rack Options	Tool-less Rail Cable Management Arm	AXXHERAIL
	Fixed Mount Bracket Basic Rail Kit	AXXRACKCARM
Intel® RAID Options	Intel® RAID Controller Modules	SRCSAS18E
		SRCSAS144E
Chassis Spares	Spare 400W Power Supply	FHJ400WPS
	Fixed Product Maintenance Kit	FHJFIXPMKIT
	Blower/Fan Kit	FHJBLOWERFAN

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

Mechnical

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

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

[2] Intel® EM64T requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® EM64T. Processor will not operate (including 32-bit operation) without an Intel® EM64T-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® EM64T 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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