

Product Brief

- Accommodates Two Intel® Pentium® III Processors
- Flexible Cooling, Power, and Storage
- Pedestal or 5U Rack Form Factor



Intel® Server Chassis SC5100

Versatile, Highly Reliable Server Chassis

Dependable servers are the critical foundation of any successful e-Business. For high server availability, utilize Intel® server building blocks, including the new Intel® Server Chassis SC5100. Available in multiple configurations to meet your customers' unique needs, this chassis is flexible, scalable, and built to keep servers up and running.

The versatile Server Chassis SC5100 delivers outstanding flexibility and leading dual-processing features. It is very flexible, supporting two server boards, the Intel® Pentium® III processor, rack or pedestal configurations, single or redundant power supplies, and supports either five IDE hard drives or ten 1" Ultra160 SCSI hard drives. This chassis enables you to meet a variety of customer needs with one chassis.

intel®

Versatile Server Chassis for the Intel® Server Boards SAI2 & SDS2

The Basis for a Highly Reliable Platform

The Intel® Server Chassis SC5100 was designed for high availability. It offers five fans for excellent system cooling, optional redundant hot-swap power supplies, and optional hot-swap SCSI hard drive bays. The Server Chassis SC5100 is built to ensure maximum server reliability and uptime to protect your customers' investment. Intel® Server Management is integrated into key system components to assist in detecting server problems before they endanger your customers' business.



Build Value with Intel: Server Products, Programs, and Support

Intel is committed to providing industry-leading server building blocks, programs, and support services to help system integrators successfully compete in today's evolving Internet economy. Get the high-value server solutions you need to succeed by taking advantage of the outstanding value Intel provides its system integrators:

- High-quality server building blocks
- Extensive breadth of server building blocks
- Solutions and tools to enable e-Business
- Comprehensive training services
- Worldwide 24x7 technical support
- World-class service, including a three-year limited warranty and Advanced Warranty Replacement

For more information on Intel's added-value server offerings, please visit: www.intel.com/go/serverbuilder



Solutions for Your Customers' Unique Needs

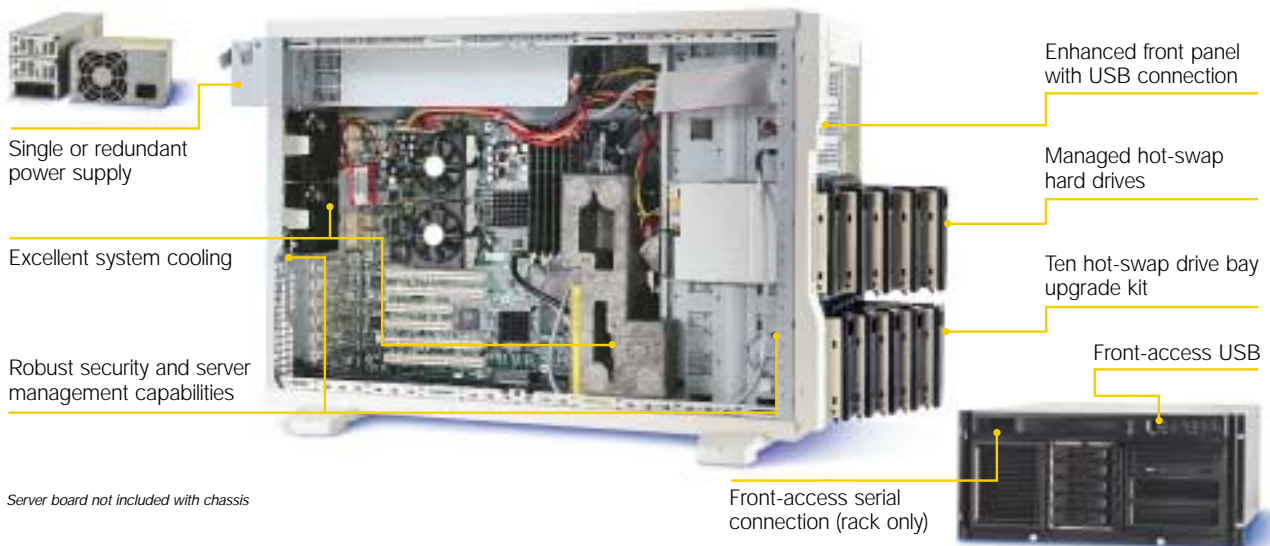
With a wide variety of flexible options, the Intel® Server Chassis SC5100 forms the foundation of many different server solutions. The Server Chassis SC5100 base configuration can be combined with the Intel® Server Board SAI2 to create an effective file and print server for a mid-sized business. For higher performance needs, combine the Intel® Server Board SDS2 with the redundant power Server Chassis SC5100—which also includes hot-swap Ultra160 SCSI drive support—to create a powerful workgroup database server.

Features

Benefits

Specifically designed and validated with Intel® server boards	Supports high-performance Intel® Pentium® III processor-based solutions to deliver added reliability with quick and simple integration
Single or redundant power supply options	Ample power for full system integration and added uptime
Advanced cooling system with up to five fans optimally placed to cool key server components	Actively monitored cooling enables a highly reliable server platform
Base chassis includes five fixed hard drive bays	Large storage capacity with room to grow as your customers' business grows
Hot-swap redundant power configurations support five 1" Ultra160 SCSI hot-swap bays and two fixed drive bays	Minimize or eliminate downtime when replacing a hard disk
Option for up to ten 1" Ultra160 SCSI hot-swap bays with upgrade kit (with redundant power chassis)	Exceptional storage capacity in a 5U chassis (supports up to 730 GB of Ultra160 storage)
Option for ten-drive hot-swap configuration through single SCSI channel (Y-Cable)	Greater configuration flexibility
Up to three 5.25" peripheral drive bays	Greater configuration flexibility
Pedestal or rack-optimized configurations plus a pedestal-to-rack conversion kit	Allowing for easy integration
Extensive international safety and EMC regulatory approvals	Speeds time to market and lowers development investment
Support for advanced Intel® Server Management	High security and availability through automatic health monitoring, proactive messaging, and post-issue diagnostics

Intel® Server Chassis SC5100



Complete Your Intel® Server Chassis SC5100 with Intel® Server Building Blocks



The Intel® Pentium® III Processor with 512-KB cache support provides powerful performance to meet the needs of your server customers and give them the reliability, flexibility, and headroom necessary for e-Business transaction surges.



The Intel® Server Board SAI2 is an economical server board for small and medium sized business. The Server Board SAI2 features:

- Dual Intel Pentium III processor with 512-KB cache support
- Dual Peer PCI buses with support for 64-bit/66-MHz PCI slots
- Up to 4 GB PC133 ECC SDRAM



The Intel® Server Board SDS2 is a powerful multi-purpose server board for building workgroup and Internet applications. The Server Board SDS2 features:

- Dual Intel Pentium III processor with 512-KB cache support
- Triple Peer PCI buses with support for 64-bit/66-MHz PCI slots
- Advanced Intel Server Management
- Up to 6 GB PC133 ECC SDRAM



Intel® Server Management monitors key server components and fixes many problems automatically, keeping your customers up and running. Intel Server Management offers several key high-availability features including:

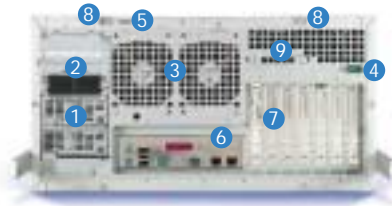
- Integrated remote management
- Event alerting and logging
- Proactive fault management



Intel® RAID Controllers are designed to protect data, applications, and the server operating system from disk failures. Intel offers an affordable, high-performance line of RAID products, which are tested and validated for easy integration with Intel server building blocks.



Intel® PRO Server Adapters, including Fast Ethernet and Gigabit Ethernet server adapters, help reduce bottlenecks and improve availability with industry-leading performance and advanced server features.



Intel® Server Chassis SC5100 Rear Panel

1. Single or Redundant Power Supply
2. Dual-line Cord
3. Two System Fans
4. Serial Port B, COM 2
5. Lock Loop
6. ATX-compatible Cutout for I/O Shield Installation
7. Expansion Card Access Panels
8. Thumb Screws for Easy, Tools-free Side Panel Removal
9. Intelligent Chassis Management Bus Knock out

Intel® Server Chassis SC5100 Specifications

Form Factor

Pedestal or 5U rack server chassis

Dimensions

Pedestal	17.5" Height 8.6" Width (12.6" with base) 26.9" Depth
Rack	5U (8.6") Height 16.9" Width 24.9" Depth (25.6" with handles)
Color	Pedestal is Dusty Beige (Intel Color Standard 513505) Rack is Black (Intel Color Standard GE 701)

Hard Drive Bay

Base Configuration	Supports five fixed Ultra160 SCSI ¹ or IDE drives (1" height)
Hot-Swap Redundant Power Configurations	Supports five (or ten) ² Ultra160 SCSI ¹ or IDE 1" hard drives
SCSI Backplane	LVD with SAF-TE

External Peripheral Bays

Up to 3 @ 5.25" (1" height); 1 @ 3.5" (floppy)

System Cooling

Up to five fans Two 92 mm fans instrumented to provide RPM data for fan failure prediction and detection
Two fans in rear of chassis
One 80 mm fan (in power supply)

Front Panel

Buttons Power on/off button (momentary), system reset button, ACPI sleep switch and tool-activated NMI switch

LEDs Power, hard drive activity, two network activity, system ID (rack only), and general system status

USB and Serial (rack only) Connectors

Security
The Intel Server Chassis SC5100 includes a mechanical lock on the front bezel and a removable padlock loop for the system access cover. The chassis also includes two intrusion switches that can be monitored by Intel® Server Management software.

Environment

Ambient Temperature
Operating +10°C to +35°C
Non-operating -40°C to +70°C ambient

Relative Humidity
Non-operating 95% @ 30°C non-condensing

Acoustics
<50 dBA in an idle state in a normal office environment (65° - 75°F)

Electrostatic Discharge
15kV per Intel test specification

Product Regulations

When integrated with a validated Intel® server board and configured as outlined in the SC5100 Chassis Subassembly Installation Guide, the Intel Server Chassis SC5100 has been verified to comply with the following Safety and EMC regulations:

Safety		
U.S. & Canada	UL60950 – CSA 60950 (UL and cUL)	
Europe, CE Mark	EN60950 (Complies with 73/23/EEC)	
International	IEC60950 (CB Report and Certificate)	
Nordic Countries	EMKO-TSE (74-SEC) 207/94	
Australia, New Zealand	AS/NZS 3260 (covered by CB Report)	
Russia	GOST 50377-92	
Argentina	IRAM S.I.C.M No 92/98	
Electromagnetic Capability (EMC)		
U.S.	FCC, Part 15, Class A	
Canada	ICES-003, Class A	
Europe, CE Mark	EN55022, EN55024, EN61000-3-2 / -3-3 (Complies with 89/336/EEC)	
International	CISPR 22, 3rd Edition, Class A	
Japan	VCCI, Class A	
Australia, New Zealand	AS/NZS 3548 (Based on CISPR 22)	
Taiwan	BSMI CNS13438, Class A	
Russia	GOST 29216-91 / 50628-95	
Korea	RRL, Class A	

The Intel® Server Chassis SC5100 Power Supply

	SC5100 Base	SC5100 Hot-Swap, Redundant Power	SC5100 Hot-Swap, Redundant Power, Rack-Optimized
DC Power Supply	300W PFC	350W, dual-line cord, 1+1 PFC	350W, dual-line cord, 1+1 PFC
AC Voltage	100-127 / 200-240 V~; 4.6 / 2.3A	100-127 / 200 – 240 V~; 6 / 3 A	100-127 / 200 – 240 V~; 6 / 3 A
+5V	26 amp max	32 amp max	32 amp max
+5V standby	800mA max	2000mA max	2000mA max
+12V	10 amp sustained	12 amp sustained	12 amp sustained
+3.3V	16 amp max	26 amp max	26 amp max
0.5 amp max	-12V	0.5 amp max	0.5 amp max

Recommended Configurations and Order Codes

	Intel® Server Chassis SC5100 Base (Beige)	Intel® Server Chassis SC5100 Hot-Swap Redundant Power (Beige)	Intel® Server Chassis SC5100 Hot-Swap, Redundant Power, Rack-Optimized (Black)
Product Code	KHD2BASE300	KHD2HSRP350	KHD2HSRP350R
Form Factor	Pedestal or Rack (5U) ¹	Pedestal or Rack (5U) ¹	Rack
Boards Supported²	SDS2 ² or SAI2	SDS2 ²	SDS2 ²
Rack Kit Code (optional)	AHD2RACK	AHD2RACK	Included with chassis
Chassis Spares Kit	FHDSPRS	FHDSPRS	FHDSPRS
Hot-Swap Drive Bay Upgrade (optional)	AXX2HSDRVUG	AXX2HSDRVUG	AXX2HSDRVUG
DLT Tape Drive and Slim Line CD-ROM Mounting Brackets (optional)	FHD2DLTBRK	FHD2DLTBRK	FHD2DLTBRK
SCSI "Y-Cable" (optional)	N/A	AXXHSBPYCBL	AXXHSBPYCBL
Intelligent Chassis Management Bus (optional)	AXX2ICMBKIT	AXX2ICMBKIT	AXX2ICMBKIT
External SCSI Cable (optional)	AXXEXTSCSICBL	AXXEXTSCSICBL	AXXEXTSCSICBL

1. Rack conversion kit requires order code AHD2RACK.
2. Please see <http://support.intel.com/support/motherboards/server/> for additional boards supported by the chassis.

3. The Ultra160 SCSI drive bays are compatible with Ultra2 SCSI.
4. Ten hot-swap Ultra2 or Ultra160 SCSI drive bays (and zero IDE bays) are possible with the AXX2HSDRVUG upgrade kit.

For the most current product information on Intel server building blocks, visit: www.intel.com/go/serverbuilder

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