



#### Product Brief

##### Intel® Server Chassis SR1400

- Support for Dual Intel® Xeon™ Processors
- PCI Riser Support for PCI Express\* and PCI-X I/O Interconnect Technologies
- Intel® Power and Thermal Headroom

## Intel® Server Chassis SR1400

A flexible, 1U rack-optimized chassis for performance-intensive solutions and high-density clusters



The Intel® Xeon™ processor, with up to 2MB Advanced Transfer Cache, Hyper-Threading Technology, Intel® Extended Memory 64 Technology (Intel® EM64T)<sup>1</sup>, and Enhanced Intel SpeedStep® technology<sup>2</sup>, provides remarkable levels of reliability and performance.

# Intel® Server Chassis SR1400

Working in space-constrained environments presents a special challenge to the business, department, or workgroup seeking a powerful and reliable server chassis solution. That challenge requires the blending of performance, reliability, and scalability features with management, power, storage, and cooling options designed specifically for rack-mount configurations in close quarters. For organizations facing the challenge of working in a space-constrained environment, Intel offers the Intel® Server Chassis SR1400.



## Performance for Demanding Applications, Flexibility for Growth

For performance, reliability, and ease of integration, the Intel Server Chassis SR1400 is specifically designed for and validated with the Intel® Server Board SE7520JR2 through rigorous testing in concentrated computing environments. In addition, the chassis' support for PCI Express\* and PCI-X risers and for fixed SATA and hot-swap SATA and SCSI hard drives gives organizations the backplane flexibility to easily enhance their I/O and storage capabilities.

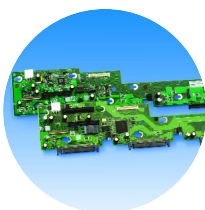
## Ease of Management and Maintenance

Flexible and easy access to the server is another concern in a space-constrained environment. The Intel Server Chassis SR1400 addresses this concern through management technologies such as the optional Intel® Local Control Panel<sup>3</sup> and validation with Intel® Server Manager 8. The Server Chassis SR1400 also simplifies maintenance with the help of optional tool-less rack slide rails and cable-management arm, and tool-less assembly and replacement parts including fans, the hard-drive backplane, risers, and power supplies.

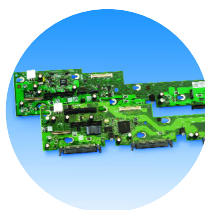
The optional Intel® Local Control Panel<sup>3</sup> enables server monitoring and management from a control panel on the front of the server.



Options for fixed-drive SATA and hot-swap SATA and SCSI enhance storage flexibility.



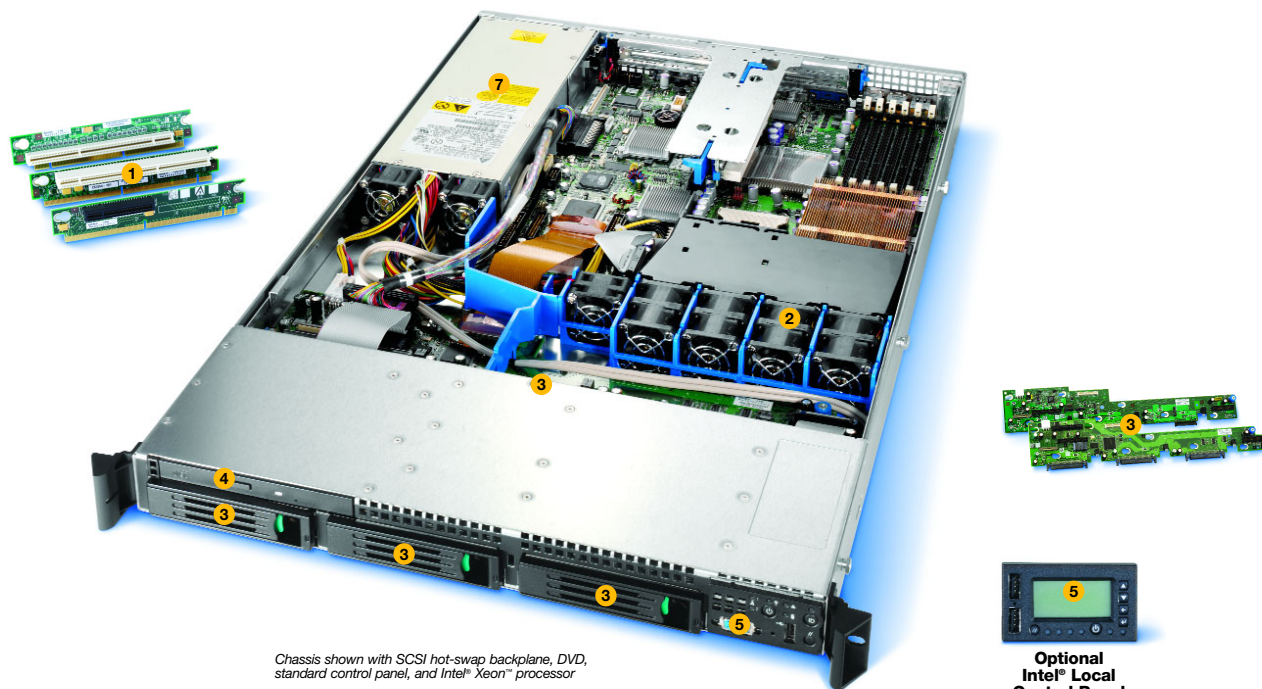
An optional cable-management arm and tool-less rack slide rails enable easy access to the server.



## Intel® Server Chassis SR1400 Features and Benefits

Features	Benefits
Specifically designed for and validated with the Intel® Server Board SE7520JR2	Performance advantages from an Intel® Xeon™ processor-based server board; enhanced reliability and ease of integration
PCI Express* and PCI-X riser configurations	I/O performance and flexibility
Support for up to three fixed SATA, hot-swap SATA, or hot-swap Ultra320 SCSI drives <sup>4</sup>	Storage flexibility, configurability for performance or price sensitivity
Tool-less assembly and installation of: <ul style="list-style-type: none"><li>• Cooling-fan replacement</li><li>• Standard control panel and Intel® Local Control Panel<sup>3</sup></li><li>• PCI Express and PCI-X risers</li><li>• PCI assembly and retention</li><li>• Hot-swap disk drives</li><li>• Rack slide rails</li><li>• Cable-management arm</li></ul>	Simplified maintenance, lower service and support costs
500W power supply with two fans and Intel® Server Management 8 monitoring interface	Power headroom and monitoring ability for a fully equipped server
Support for Intel Local Control Panel	Ability to monitor server operations and manage server directly from an optional server-attached control panel

# Intel® Server Chassis SR1400



## Intel® Server Chassis SR1400 – Front View

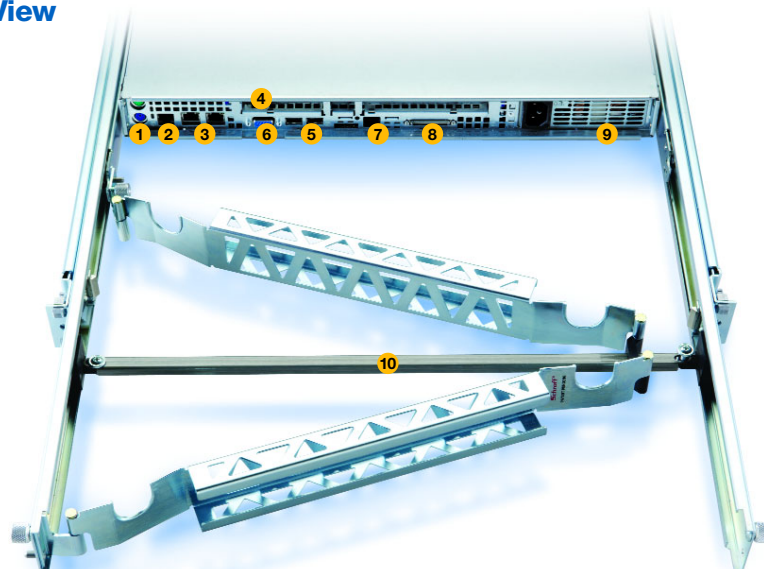
- Two riser slots:
  - One low-profile riser supporting PCI-X
  - One full-height/full-length riser with options to support PCI-X and PCI Express\*
- Tool-less multispeed five-fan module
- Support for up to three drives: fixed SATA, hot-swap SATA, and hot-swap SCSI
- Optional tool-less slimline drive bay for CD/DVD or floppy drive
- Support for two control-panel options:
  - Standard control panel – power, sleep, and reset buttons; seven LEDs capturing system activity; USB and video connectors
  - Optional Intel® Local Control Panel®, which simplifies servicing by enabling server administration from an innovative front-panel LCD
- Two front-bezel options: one compatible with the standard control panel and one compatible with the Intel Local Control Panel
- 500W PFC power supply with dual fans



Optional locking bezel

## Intel® Server Chassis SR1400 – Rear View

- PS/2\* keyboard and mouse connectors
- RJ45 serial port
- Two Ethernet connectors
- Video connector
- Two USB connectors
- Intel® Light-Guided Diagnostics post-code LEDs
- Optional Intel® Server Management Module Ethernet connector
- SCSI connector (SCSI models only)
- 500W PFC power supply
- Optional rack slide rails and cable-management arm



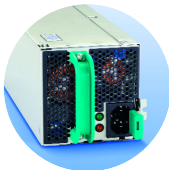


# The Intel® Server Chassis SR1400 Supports Technologies That Define Innovation<sup>5</sup>

A number of sophisticated Intel server technologies combine forces in the Intel® Server Chassis SR1400 to meet the needs of organizations requiring high levels of flexibility and performance in a space-constrained server environment. **Intel® Power and Thermal Headroom** enhances performance and provides a flexible path for growth. **Intel® Active Airflow Control** monitors temperatures and adjusts fans accordingly to keep servers cool, which helps to protect performance, and quiet, which is particularly important in space-constrained environments.

Other Intel server technologies support administration and servicing in the Server Chassis SR1400, making it easier to maintain high levels of performance. These are **Intel® Light-Guided Diagnostics**, which simplifies troubleshooting to enable faster recovery; the optional **Intel® Local Control Panel**<sup>3</sup>, for monitoring and control through an innovative front panel; **Intel® Drive Power Isolation**, which protects against voltage spikes during hot-swap drive replacement to safeguard data and lower support costs; and **Intel® Cable Reduction Technology**, which reduces cabling complexity and costs and provides powerful server-management capabilities.

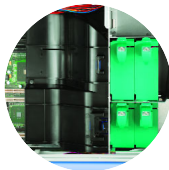
Intel server technologies provide powerful capabilities designed to make server systems more reliable, more available, and easier to service. Seamlessly integrated into the latest generation of Intel® Server Products, these technologies work in concert to complement the capabilities of the most current Intel processor and chipset technologies.



Intel® Power and Thermal Headroom



Intel® Local Control Panel



Intel® Active Airflow Control



Intel® Drive Power Isolation



Intel® Light Guided Diagnostics



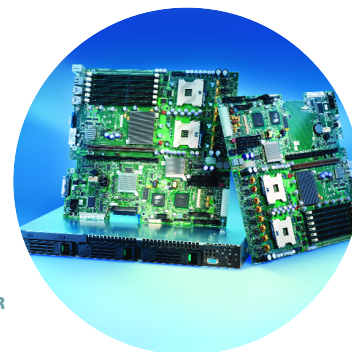
Intel® Cable Reduction Technology

**For more information on these technologies, please visit:**  
<http://developer.intel.com/design/servers/technologies/>

# Compatible Products for Comprehensive Solutions

The following table provides a list of key compatible products for the Intel® Server Chassis SR1400. Please see <http://support.intel.com/support/motherboards/server/chassis/sr1400> for the most recent and comprehensive product compatibility list.

The Intel® Server Chassis SR1400 gives businesses a full system-level solution through integration with the Intel® Server Board SE7520JR2 and in a platform including the Server Board SE7520JR2 and support for DDR 266/333 and integrated SCSI.



Intel Building Block	Product Name(s)	Product Order Code(s)
Intel® Server Chassis	Intel® Server Chassis SR1400	SR1400 SR1400NA
Intel® Server Board	Intel® Server Board SE7520JR2	SE7520JR2ATAD1 SE7520JR2ATAD2 SE7520JR2SCSID1 SE7520JR2SCSID2
Intel® Server Platform	Intel® Server Platform SR1400JR2 (with Intel Server Board SE7520JR2 and Intel Server Chassis SR1400 and supporting DDR 266/333 and integrated dual-channel Ultra320 SCSI)	SR1400SYS SR1400SYSNA
Intel® PRO Server Adapter	Intel® PRO/1000 MT Server Adapter	PWLA8490MT
Intel® RAID Controllers	Intel® Server RAID Controller SRCU42E Intel® Server RAID Controller SRCU42X Intel® Server RAID Controller SRCZCRX Intel® Server RAID Controller SRCS16	SRCU42E SRCU42X SRCZCRX SRCS16
Intel® Management Modules	Intel® Management Module Professional Edition Intel® Management Module Advanced Edition	AXXIMMPRO AXXIMMADV
Intel® Server Accessories (required)	Drive-Bay Configuration (choose one): • SATA Fixed-Drive Kit • SATA Hot-Swap Backplane and Cables • SCSI Hot-Swap Backplane and Cables  Full-Height Riser (choose one): • PCI-X Riser • 1U PCI Express* Riser  SR1400 Front Control Panel (choose one): • Standard Control Panel • Intel® Local Control Panel <sup>3</sup>	AFIXDRVKIT A1400SATAKIT A1400SCSIKIT  ADWPCIXR ADWPCIEXP  AXXRACKFP AXXLCPRACK
Intel® Server Accessories (optional)	SR1400 Bezel Supporting Standard Control Panel (compatible with Standard Control Panel, order code AXXRACKFP)  SR1400 Bezel Supporting Intel Local Control Panel (compatible with Intel Local Control Panel, order code AXXLCPRACK)  Slimline CD Slimline DVD/CDR Slimline Floppy Hard-Drive-to-Floppy Conversion Kit  SR1400 and SR2400 Tool-less Rail Kit Cable-Management Arm (Rail Kit required, order code AXXHERAIL) Rack Brackets  SR1400 Chassis Preventative-Maintenance Kit SR1400 Electrical Preventative-Maintenance Kit	ADWBEZBLACK  ADWLCDBEZEL  AXXSCD AXXDVDCCR AXXSFFLOPPY AXXFLOPHDDTRAY  AXXHERAIL AXXRACKCARM  AXXBRACKETS ADW1UCHSPRKIT ADW1UEESPRKIT

**For a complete list of spares and accessories, see the Intel® Server Board SE7520JR2 Configuration Guide at <http://support.intel.com/support/motherboards/server/se7520jr2>**

# Intel® Server Chassis SR1400 Specifications

## Form Factor

1U Rack-Mount Server – SSI Thin E-Bay v3.1-compatible

## Dimensions and Color

Height 1.7", Width 16.93", Depth 26.46"  
(43 mm x 430 mm x 672 mm)

Black (Intel Color Standard GE 701)

## Hard-Drive and Peripheral Bay Support

Fixed	Up to three SATA or IDE
Hot-Swap	Up to three SATA or SCSI
Peripheral Bay	Tool-less slimline bay for a slimline CD, CD/DVD, or floppy drive; option to convert a hard-drive bay into a slimline floppy bay

## System Cooling

Four dual-rotor 56mm fans and one single-rotor 28mm fan mounted in tool-less fan module and providing cooling for the processors, hard drives, and add-in cards; two 28mm fans for cooling the power supply; all fans monitored by Intel® Server Management 8 and instrumented to provide RPM data for fan-failure prediction and detection

## Power Delivery

DC Power Supply	500W PFC
AC Voltage	100–127 / 200–240 V~; 6.5 / 3.2A <sup>6</sup>
+5V	12A maximum
+5V Standby	2A maximum
+12V	35A maximum continuous
+3.3V	16A maximum
–12V	0.5A maximum

## Control Panel

Buttons and Switches	Power on/off (momentary) button, system reset button, ACPI sleep switch, tool-activated NMI switch
LEDs	Power, hard-drive activity, network activity (two), system ID (rack only), general system status, hot-swap and redundant-fan activity
Connectors	USB port, video (switched video with rear video connector)
Intel® Local Control Panel <sup>3</sup>	For monitoring and control of the server from the front panel

## Security

Optional mechanical locking on the front bezel, an intrusion switch that can be monitored by Intel® Server Management 8

## Environment

Ambient Temperature	Operating: +10°C to +35°C; non-operating: –40°C to +70°C
Relative Humidity	Non-operating: 95% @ +30°C non-condensing
Acoustics	5.7 bels actual
Electrostatic Discharge	15kV air discharge, 8kV direct contact per Intel test specification

## Safety and EMC Regulatory Compliance (Class A)

(EMC regulatory compliance is based on integration with a validated Intel server board and configuration as outlined in the Intel® Server Chassis SR1400 subassembly guide.)

Country	Certification Safety and/or EMC	Regulatory Mark Safety and/or EMC
Argentina	IRAM	Not applicable
Australia/ New Zealand	ACA, MED	C-Tick
Belarus	Bellis	Not applicable
Canada	UL / Industry Canada	cULus / ICES
China	CNCA	CCC
Europe	European Directives	CE
Germany	GS	GS
International	CB Report / CISPR	Not applicable
Japan	VCCI	VCCI
Korea	RRL	MIC
Russia	GOST	GOST
Taiwan	BSMI RPC	BSMI
United States	UL / FCC	cULus / FCC



<sup>1</sup> Intel® Extended Memory 64 Technology (Intel® EM64T) requires a computer system with a processor, chipset, BIOS, OS, 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. **Intel EM64T-enabled OS, BIOS, device drivers and applications may not be available.** Check with your vendor for more information.

<sup>2</sup> Enhanced Intel SpeedStep® technology is available on Intel® Xeon™ processors with an 800MHz system bus at operating frequencies of 3.40 GHz and above.

<sup>3</sup> The Intel® Local Control Panel requires the purchase and installation of an optional Intel® Management Module upgrade.

<sup>4</sup> Each hard-drive configuration requires a separately ordered kit that includes the necessary cables, drive bays, and backplane; choose one of the following order codes: AF1XDRVKIT (SATA fixed-drive kit), A1400SATAKIT (SATA hot-swap drive kit), or A1400SCSIKIT (SCSI hot-swap drive kit).

<sup>5</sup> Features may vary depending on system configuration and may require the purchase and installation of an optional Intel® Management Module upgrade.

<sup>6</sup> The maximum amperage represents the value at which the chassis is rated.

**For more information on how to make the Intel® Server Chassis SR1400 part of your server environment, please contact an Intel® Channel Membership Programs participant.**



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