

## Product Brief

Intel® Server Board S5500BC Intel® Server Chassis SC5650 Intel® Server System SR1630BC

# Intel<sup>®</sup> Server Board S5500BC Intel<sup>®</sup> Server Chassis SC5650 Intel<sup>®</sup> Server System SR1630BC

An entry-level family of rack- and pedestal-optimized server products designed for business-class performance and quality for small to medium sized business applications

### **Key Features**

- Supports up to two Intel<sup>®</sup> Xeon<sup>®</sup> Processor 5500 series on Intel<sup>®</sup> Microarchitecture, codenamed Nehalem
- Scalable DDR3 memory (8 DIMMs)
- High-speed PCI Express\* 2.0 I/O (up to 5 slots)
- Flexible storage configurations
- Supports Server Power Capping via Intel® Intelligent Power Node Manager

**Target Applications:** Small and medium-sized business applications, including web servers, file and print servers, e-mail servers, storage servers and vertical-specific business applications. CPU-Frequency intensive HPC workloads (Life Science, Financial Service, Seismic Imaging).



#### **Features and Benefits**

- Supports up to two Intel<sup>®</sup> Xeon<sup>®</sup> Processor 5500 series on Intel<sup>®</sup> Microarchitecture, codenamed Nehalem Increase server performance with no increase in power consumption
- Fast, scalable, energy-efficient memory Up to 8 DIMMs of registered or unbuffered DDR3 ensure ample capacity and energy-efficient performance for any application
- High-performance I/O architecture Up to 5 expansion slots, including two highspeed PCI Express\* 2.0 x8 slots, provide flexible expansion
- Flexible storage configurations Hard drive options ranging from two fixed SATA devices to six fixed or hot-swap SATA or SAS drives provide flexible, scalable storage
- Intel<sup>®</sup> Enabled Server Acceleration Alliance (Intel<sup>®</sup> ESAA) Certified Pre-tested and certified configuration guides ("recipes") over a range of applications
- Intel® System Management Software Get your Intel® servers up and running with Intel® Deployment Toolkit and maintain them with the provided Intel® Active System Console, a lightweight management solution for small business or with the optional full IT management solution using Intel® Management Packs with Microsoft\* System Center Essentials



#### Intel<sup>®</sup> Server System and Chassis Information

1U rack-optimized server system for flexible high-density server solutions		
SR1630BC SR1630BCNA		
1U Rack		
2 x fixed 3.5" SATA HDDs, Optional slim-line optical drive		
2 x fixed cooling blowers with duct		
400-watt High Efficiency non-redundant power supply		
1 Low Profile Half Length PCI Express* 2.0 x8 through Riser card in slot 6		
1.70" (43 mm) x 16.9" (430 mm) x 20.0" (508 mm)		
<ul> <li>Intel<sup>®</sup> Server Board S5500BC (SATA)</li> <li>Intel<sup>®</sup> Server Chassis SR1630</li> <li>400-Watt Non-Redundant High Efficiency power supply</li> <li>One low-profile PCI Express* riser card</li> <li>Slim-line CD-ROM bay</li> <li>Basic rail kit</li> <li>Pre-routed cables</li> </ul>		
A reliable and flexible server chassis for entry-level server and workstation applications		
BRP	DP	
SC5650BRP SC5650BRPNA	SC5650DP SC5650DPNA	
5U Pedestal or 6U Rack		
Support for up to a total of six 3.5" fixed or hot swap SAS/SATA drives		
Media Bays (2 x 5.25") & (1 x 3.5")		
One tool-less 120 mm chassis fan One tool-less 120 mm PCI fan One tool-less 92 mm drive bay fan		
Not included		
600-watt 1+0 High Efficiency Power Supply	600-watt Power Supply	
	600-watt Power Supply No	
Efficiency Power Supply Yes (Optional second power	No e bay, optional hot-swap bays,	
Efficiency Power Supply Yes (Optional second power supply sold separately) Peripheral bays, fixed hard driv	No e bay, optional hot-swap bays, I slots	
Efficiency Power Supply Yes (Optional second power supply sold separately) Peripheral bays, fixed hard driv power supplies, system fan, PC	No e bay, optional hot-swap bays, I slots	
Efficiency Power Supply Yes (Optional second power supply sold separately) Peripheral bays, fixed hard driv power supplies, system fan, PC Lockable, optional support for Ir	No e bay, optional hot-swap bays, I slots ntel® Local Control Panel	
	server solutions SR1630BC SR1630BCNA 1U Rack 2 x fixed 3.5" SATA HDDs, Option 2 x fixed cooling blowers with of 400-watt High Efficiency non-ri- 1 Low Profile Half Length PCI E Riser card in slot 6 1.70" (43 mm) x 16.9" (430 mm) Intel* Server Board S5500BC Intel* Server Chassis SR1630 400-Watt Non-Redundant Hight One low-profile PCI Express* Slim-line CD-ROM bay Basic rail kit Pre-routed cables A reliable and flexible server classics and workstation applicate BRP SC5650BRPNA 5U Pedestal or 6U Rack Support for up to a total of six SAS/SATA drives Media Bays (2 x 5.25") & (1 x 3. One tool-less 120 mm chassis for One tool-less 92 mm drive bay Not included	

## Intel® Server Board S5500BC Technical Specifications

Form Factor	SSI CEB-leveraged (12" x 10.5")	Management Hardware	Integrated IPMI 2.0 baseboard management controller
Processor	Supports up to two Intel <sup>®</sup> Xeon <sup>®</sup> Processor 5500 series on Intel <sup>®</sup> Microarchitecture, codenamed Nehalem		<ul> <li>Fan speed control</li> <li>Diagnostic LED's</li> <li>Temperature monitoring and recovery</li> <li>SMASH CLP (command line interface)</li> <li>Email alerting</li> <li>Power management with Intel® Intelligent Power Node Manager</li> <li>Optional Intel® Remote Management Module (RMM3)</li> <li>KVM &amp; Virtual Media redirection</li> <li>Dedicated 3rd NIC</li> <li>Remote Power on/off</li> <li>Embedded Web UI</li> <li>Event log and configuration</li> </ul>
Intel® Quick Path Technology	4.8GT/s, 5.86GT/s and 6.4GT/s		
Chipset	Intel <sup>®</sup> 5500 chipset with Intel <sup>®</sup> ICH10R		
Memory Capacity	Eight DDR 3 DIMM sockets (Registered or Un-buffered) • Four channel native (800/1066/1333MHz)		
Memory RAS Features	Channel-Independent Mode Channel-Mirroring Mode Demand Scrubbing Mode Patrol Scrubbing Mode		
Storage	Six SATA ports (3 Gbps) via ICH10R with Intel® Embedded Server RAID Technology	Management Software	<ul> <li>Intel® Deployment Assistant 3.0 <ul> <li>Wizard based UI to deploy, configure and update server</li> <li>BIOS, BMC and RAID array configuration</li> <li>Unattended OS install</li> <li>Online patch updates</li> </ul> </li> <li>Intel® Server Management Software 3.X <ul> <li>View critical or warning events</li> <li>Power on/off/reset</li> <li>View sensor (fan speeds, temperature, power)</li> <li>Full IPMI 2.0 interface</li> <li>Chassis Intrusion detection</li> <li>Serial Over LAN (Text Console Redirection)</li> </ul> </li> </ul>
Intel <sup>®</sup> RAID Support	Integrated • Intel® Embedded Server RAID Technology with host- based SW RAID levels 0/1/10. Optional SW RAID 5 with activation key Optional • Validated Intel® RAID Controllers <sup>1</sup>		
Expansion Slots	<ul> <li>Pedestal <ul> <li>2 half-length PCI Express 2.0 x8 slot</li> <li>1 half-length PCI Express 2.0 x4 slot (x8 mechanical)</li> <li>1 half-length PCI Express 1.0 x4 slot</li> <li>1 half-length PCI 32/33 5V slot</li> </ul> </li> <li>Rack <ul> <li>1 low-profile half-length PCI Express 2.0 x8 riser in slot 6</li> </ul> </li> </ul>		
Integrated LAN	Embedded Intel <sup>®</sup> Dual Gigabit Controllers		
Integrated Graphics	Onboard Server Engine* LLC Pilot II* controller with 64 MB DDR2 memory, 8MB allocated to graphics		

#### Safety and EMC Regulatory Compliance

Regulatory compliance for an Intel host system is based on the use of an Intel server base board that was tested in the host chassis and found compliant. Intel server base boards and host chassis are tested to Class A EMC requirements. Intel server products comply with RoHS (Restriction of Hazardous Substances).

Region (Compliance Obtained)	Board Markings	Host Chassis Markings	
Argentina (IRAM)	Regulation N/A	W 6	
Australia (ACA) / New Zealand (MED)			
Belarus	Regulation N/A	(TP)	
Canada		e UL ss	
	ICES-003		
China	Regulation N/A		
		声明 此为人级产品,在生活环境中,该产品可能会 造成无线电干扰,在这种情况下,可能需要用 产时其干扰采取可行的措施。	
	¢	<b>()</b>	
Europe (EU Directives) - LVD & EMC require CE	CE	CE	
mark; No mark required for RoHS; WEEE marking added voluntarily for end integrator convenience)		X	
Germany GS for Chassis Only; German Green Dot (Duales System Deutschland) for Board Packaging Only	Ø	G	
International Compliance (CB Report & CISPR Emission & Immunity)	Marking Not Required		
Japan (VCCI for chassis only) & Japan Recycling	Regulation N/A	この構成し、消物の効果があるための注意の利益は に基づくフラスA 情報技術装置です。この装置を成成的 助業を引き起こすことがあります。この場合には使用者A るよう要求されることがあります。	
Marks on Board Retail Packaging Only	æ Z	Marking Not Required	
Korea (KCC)			
Russia (GOSSTANDART)	Regulation N/A	PG	
Taiwan (BSMI)	e		
	警告规则得到了一些的公式,不能是任何的地球中心的用导。 可是中心的实际的实现。他们是一个不过可能的这个,在2011 警告记录》,在2015年的,在2015年的,他们		
Ukraine (UKRTEST)	Regulation N/A	Marking Not Required	
United States NRTL & FCC (For Board Products FCC Notation May Be in Documentation)	<b>SNL</b> us	e UL us	
n ce notation nay be in bocomentation)	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation		

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

For more information on Intel<sup>®</sup> Server Products, visit: www.intel.com/go/serverproducts

<sup>1</sup> For tested Intel RAID Controller options go to http://support.intel.com/support/motherboards/server/compat\_matrix.htm

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