

Intel® Server Board S5500BC, Intel® Server Chassis SC5650, Intel® Server System SR1630BC, Intel® Server System SC5650BCDP Spares / Parts List & Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server board S5500BC, Intel® Server chassis SC5650 and Intel® server system SR1630BC, SC5650BCDP



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Enterprise Platforms and Services Marketing

~ Subject to Change ~

Change History:

Date	Revision Number	Modifications
3/09	1.0	Production Release
4/09	1.1.2	Added Zu130 mounting kit. Remove AXXHERAIL and AXXRACKCARM
4/09	1.1.3	Added section for Intel® System Management Software
6/09	1.1.4	Updated Production RAID Controller section
7/09	1.1.5	Updated RMM3 section
	1.1.6	Updated box board content and picture of AXXZU130KIT mounting kit
<u>8/28</u>	1.1.7	Added 2.5" Hard Disk Drive Carrier Kit AXX25DRVADPTR
<u>9/13</u>	1.2.0	Add Intel Server System SC5650BCDP section Add L5508 and L5518 processor Remove AXXZU130KIT. Added VMWare* vSphere* configuration guide section
<u>10/9</u>	1.21	Modify the Product Descriptions of VMWare* vSphere* configuration guide section
<u>12/22</u>	1.2.2	Product Code and MM number refresh for chipset stepping change.
<u>2/1</u>	1.2.3	The MM# AXXSATADVROM is updated

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Production Configurations

Production Board

This section contains information needed to order Production Intel® Server Board S5500BC, Intel Server Chassis SC5650 and Intel Server System SR1630BC

1. The production Intel® boxed Server Board S5500BC contain the following:

- One baseboard with Common Enabling Kit (CEK) spring clips
- ATX I/O shield and label
- Quick Start User's Guide
- Cables: 4 SATA cables
- Resource CD-ROM with utilities, drivers, documentation and technical information
- ISMS 3.x DVD
- Compatible with Intel® Xeon® processor 5500 series

2. The production OEM 10-packs of Intel® Server Boards contain the following:

- Each baseboard with Common Enabling Kit (CEK) spring clips
- Compatible with Intel® Xeon® processor 5500 series

Production chassis

1. The production Intel® Server Chassis SC5650DP SKU includes:

- Non-redundant 600W PFC power supply
- Three non-redundant cooling fan
- Support for up to six tool-free non hot-swap 3.5" SATA hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
- Note: Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.
- Quick Start User's Guide
- Cables (one each):

- Front Panel Cable (baseboard header to front panel)
- USB Cable (USB header to chassis front panel)
- AC power cord is included in SC5650DPNA
- Chassis intrusion switch assembly
- Five Bumpers for installing Intel® Server Board SC5500BC
- The chassis is designed to work with boxed Intel® Xeon® processor 5500 series using Intel® Thermal Solution STS100C (Combo) or STS100A (Active).

2. The production Intel® Server Chassis SC5650BRP SKU includes:

- Redundant (1+0) 600W high efficiency PFC power supply with dual line cord support (full redundancy requires additional 600W module purchased separately)
- Three non-redundant cooling fan
- Support for up to six tool-free non hot-swap 3.5" SATA hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
- Note: Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.
- Quick Start User's Guide
- Cables (one each):
- Front Panel Cable (baseboard header to front panel)
- USB Cable (USB header to chassis front panel)
- AC power cord is included in SC5650BRPNA
- Chassis intrusion switch assembly
- Five Bumpers for installing Intel® Server Board SC5500BC
- The chassis is designed to work with boxed Intel® Xeon® processor 5500 series using Intel® Thermal Solution BXSTS100C (Combo) or BXSTS100A (Active).

3. Common accessories include:

- Hot Swap Drive Bays:
- AXX6DRV3GEXP: Expander-based 6-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the SAS personality module or SAS RAID card.

- AXX6DRV3GR: 6-drive bay that supports SAS/SATA drives. Requires six free SAS or SATA ports. SAS hard drive support requires SAS connectors from a SAS personality module or SAS RAID Card.
- APPT600WHPSU: Additional 600W power supply module- required for full redundancy for SC5650BRP only.
- APPTHSDBKIT: Cooling and mounting kit required for 6-drive hot-swap backplanes installed in the SC5650 chassis family. This Kit should be used with AXX6DRV3GR.
- APP3HSDBKIT: Cooling and mounting kit required for 6-drive hot-swap backplanes installed in the SC5650 chassis family. This Kit should be used with AXX6DRV3GEXP.
- AXXRAKSW5: Intel® RAID Activation Key AXXRAKSW5 to enable Intel Embedded RAID technology for SAS and/or SATA Software RAID 5 on S5500BC board and SR1630BC system.

Production Integrated 1U System

1. The production Intel® integrated Server System SR1630BC SKU includes

- One pre-installed production Intel® Server Board S5500BC
- Non redundant high efficiency 400W PFC power supply
- Two non-redundant cooling fan
- Support for up to two non hot-swap 3.5" SATA hard drives.
- One riser card
- Slim-line CD-ROM bay
- Basic rail kit
- Cables :
- Front Panel Cable (baseboard header to front panel)
- USB Cable (USB header to chassis front panel)
- Two SATA cables
- AC power cord is included in SR1630BCNA
- The system is designed to work with boxed Intel® Xeon® processor 5500 series using Intel® Thermal Solution STS100P (passive)

Production Integrated 5U System





1. The production Intel® integrated Server System SC5650BCDP SKU includes

- One pre-installed production Intel® Server Board S5500BC

- Non-redundant 600W PFC power supply
- Three non-redundant cooling fan
- Support for up to six tool-free non hot-swap 3.5" SATA hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
- Note: Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.
- Quick Start User's Guide
- Four SATA Cables
- One Front Panel Cable (baseboard header to front panel)
- One USB Cable (USB header to chassis front panel)
- AC power cord is included in SC5650DPNA
- Chassis intrusion switch assembly
- The chassis is designed to work with boxed Intel® Xeon® processor 5500 series using Intel® Thermal Solution STS100C (Combo) or STS100A (Active).

Production Order Codes

Production Board

Picture	Product Code	MM #	UPC	MOQ	Description
	S5500BC	900774	00735858208109	5	Boxed Intel® Server Board S5500BC. (Includes I/O shield, cables, resource CD and ISMS DVD)
	BB5500BC	900775	00735858208116	10	Bulk pack of the Intel® Server Board S5500BC
	S5500BCR	905459		5	Boxed Intel® Server Board S5500BC with Intel® 5500 C2 stepping chipset. (Includes I/O shield, cables, resource CD and ISMS DVD)
	BB5500BCR	905460		10	Bulk pack of the Intel® Server Board S5500BC with Intel® 5500 C2 stepping chipset.

Production Board Accessories

Picture	Product Code	MM #	UPC	MOQ	Description
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AXXTIO




901685


00735858207683

50


50 Pack: I/O Shield




Production Chassis

Picture	Product Code	MM #	UPC	MOQ	Description
	SC5650DP	900338	00735858207393	1	<p>Intel® Server Chassis SC5650DP</p> <p>Includes: One 600W fixed PSU, 3 fixed chassis fans with ducting.</p> <p>Features: Rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.</p> <p>Supports S5520HC, S5500HCV, S5500BC. Supports up to 95W processor. No power cord or heat sinks included.</p>
	SC5650DPNA	900453	00735858207614	1	<p>Same as Intel® Server Chassis SC5650DP; Includes: North American power cord. No heat sinks included.</p>
	SC5650BRP	900340	00735858207409	1	<p>Intel® Server Chassis SC5650BRP</p> <p>Includes: Base Redundant Power with (1+0) 600W power supply, 3 fixed chassis fans with ducting,</p> <p>Features: Rackable with optional rack kit. Supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA).</p> <p>Supports Intel Server Board S5520HC, S5500HCV, S5500BC. Supports up to 95W processor. No power cord or heat sinks included.</p>

Picture	Product Code	MM #	UPC	MOQ	Description
	SC5650BRPNA	900452	00735858207621	1	Same as Intel® Server Chassis SC5650BRP Includes: North American power cord. No heat sinks included.





Production System SC5650BCDP






Picture	Product Code	MM #	UPC	MOQ	Description
	SC5650BCDP	904588	00735858212663	1	Integrated 5U Intel® Server System SC5650BCDP Includes: Intel® Server Board S5500BC Intel® Server Chassis SC5650DP Note: No processors, DDR3 memory, hard drives and heat sinks included





	SC5650BCDPNA	903805	00735858213219	1	Same as Integrated 5U Intel® Server System SC5650BCDP Includes: North America power cord
	SC5650BCDPR	90733		1	Integrated 5U Intel® Server System SC5650BCDP including Intel® Server Board S5500BC with Intel® 5500 C2 stepping chipset. Includes: Intel® Server Chassis SC5650DP Note: No processors, DDR3 memory, hard drives and heat sinks included
	SC5650BCDPRNA	903805	00735858214414	1	Same as Integrated 5U Intel® Server System SC5650BCDP including Intel® Server Board S5500BC with Intel® 5500 C2 stepping chipset. Includes: North America power cord






Production Chassis and System SC5650BCDP Spares and Accessories






Picture	Product Code	MM #	UPC	MOQ	Description
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	<p>AXX6DRV3GEXP</p>	<p>877235</p>	<p>00735858180283</p>	<p>1</p>	<p>6-Drive Hot-Swap, Expander SATA/SAS Backplane Assembly Cage Kit for Intel® Server Chassis SC5600/SC5650 and system SC5650BCDP.</p> <p>Requires: 2 SAS ports from SAS personality module or RAID card and is compatible with SAS or SATA 3.5" hard drives.</p> <p>Includes: backplane board, 6 drive carriers, 2 Data cables, 6-drive bay, IPMB cable, common installation guide, SATA/SAS configuration label.</p>
	<p>AXX6DRV3GR</p>	<p>900405</p>	<p>00735858207638</p>	<p>1</p>	<p>6-Drive Hot-Swap Non-Expanded SATA/SAS Backplane Assembly Cage Kit for Intel® Server Chassis SC5600 / SC5650 family and system SC5650BCDP.</p> <p>Requires 6 SAS ports from RAID card for SAS (or SATA) 3.5" hard drive support or 6 SATA ports from baseboard or RAID card for SATA 3.5" hard drive support.</p> <p>Includes: Backplane board, 6 drive carriers, 6 data cables, 6-drive bay, IPMB cable, SES cable and SGPIO cable, common installation guide, SATA/SAS configuration label.</p>
	<p>AXXRMM3</p>	<p>900961</p>	<p>00735858206570</p>	<p>1</p>	<p>Intel® Remote Management Module 3</p> <p>Note: Compatible in SC5650DP/BRP chassis and system SC5650BCDP. Not supported in the Intel® Server System SR1630BC due to physical space limitation.</p>
	<p>AXXCMA3U7U</p>	<p>862119</p>	<p>00735858168533</p>	<p>1</p>	<p>Universal 3U to 7U Rack Mode Cable Management Arm (CMA).</p> <p>Requires: Pedestal to rack conversion kit ARIGRACK</p>



	APPTHSDBKIT	901181	00735858207676	1	<p>Hot-swap Drive Cooling and Mounting Kit for Intel® Server Chassis SC5650 and system SC5650BCDP.</p> <p>Includes: 1 fan holder and 2 Hot-swap cage brackets.</p> <p>Note: Mounting kit is required when using 6-bay Hot-swap Hard Disk Cage AXX6DRV3GR</p>
	APP3HSDBKIT	882456	00735858177450	1	<p>Hot-swap Adapter Bracket for use with Intel® Server Chassis SC5650 and system SC5650BCDP.</p> <p>Includes: 1 cooling fan, 1 fan holder and 2 Hot-swap cage brackets.</p> <p>Note: Mounting kit is required when using 6-bay Hot-swap Hard Disk Cage AXX6DRV3GEXP</p>
	AXX25DRVADPTR	904083	00735858211567	10	<p>2.5" Hard Disk Drive Carrier Kit, include ten 2.5" drive carriers and installation guide.</p> <p>The 2.5" HDD carrier is for installing 2.5" SAS, SATA, or SSD into 3.5" hot-swap hard disk drive bay.</p> <p>See compatible Intel® chassis and systems at: http://www.intel.com/support/motherboards/server/sb/CS-030726.htm</p>
	APP3RACKIT	882457	00735858177375	1	<p>Rack Conversion Kit for Intel® Server Chassis SC5650 family.</p> <p>Includes: rack rails and hardware for rack installation</p>
	APP3STDBEZEL	871862	00735858177474	1	<p>Spare Bezel with door for Intel® Server Chassis SC5650 family.</p>

	APPT600WHPSU	900984	00735858207324	1	<p>2nd Redundant 600W Power Supply Unit for Intel® Server Chassis SC5650BRP.</p> <p>Note: Optional, second module is required to enable full, hot-swap power redundancy.</p>
	FXXPPT600WPSU	901184	00735858207317	1	<p>Spare 600W Power Supply Unit for Intel® Server Chassis SC5650DP and systemSC5650BCDP</p>
	FPPTBRPCAGE	901183	00735858207331	1	<p>Spare Intel® Server Chassis SC5650BRP Redundant Power Supply Cage</p> <p>Also used to upgrade Intel Server Chassis SC5650DP/WS to redundant power configuration.</p> <p>Requires: 1 (or 2) APPT600WHPSU to complete upgrade.</p> <p>Includes: power distribution board and filler (for empty module when only 1 module installed).</p> <p>See Technical Product Specifications for instructions.</p>
	FPPTFANKIT4W	901182	00735858207713	1	<p>4-Wire Fan Kit for Intel® Server Chassis SC5650</p> <p>Includes: (1) 4-wire PCI Fan (120mm); (2) 4-wire rear fans (120mm); (1) 4-wire hard drive fan (90mm).</p>
Not Available	FPPTPMKIT	901659	00735858207720	1	<p>Chassis Preventative Maintenance Kit for Intel® Server Chassis SC5650 family</p> <p>Includes: (2) Hard Drive Bay Lockers with Screws and Spring</p>


					<ul style="list-style-type: none"> (1) Air Duct (1) Intrusion Switch Assembly (1) USB Cable (1) Rear 120mm Fixed Fan Holder with Screws (1) 92mm Fan Holder with Screws (1) Full-length PCI Card Guide (4) Rivets for front 120mm Fixed Fan (1) Adapter Plate with Screws for Fixed Power Supply (1) Fixed Power supply tool-less locker (4) Chassis Feet (1) Fixed HDD Fan Plate (1) Supporting kit for upgrading to redundant power supply for the Intel® Chassis SC5650DP/WS
	FXXPPTFPBRD	901360	00735858207737	1	Spare Front Panel Board for Intel® Server Chassis SC5650
	FXXIPMBCBL	878135	00735858180085	10	Spare IPMB cables
	FXXSESCBL	877945	00735858180092	10	Spare SES cables
	FXXSGPIOCBL	877944	00735858180108	10	Spare SGPIO cables
	AXXRJ45DB92	881944	00735858155212	1	<p>Serial Cable Converter Dongle Kit</p> <p>Contains: two serial cable converter dongles (RJ45 to DB9); one for DSD and one for DCD (modem).</p> <p>Kit also includes: One serial ribbon cable for cabling 2nd serial port from the baseboard.</p>





					Note: Ribbon cable is not used with the Intel Server Chassis SC5650
	FXX6DRV3GRBRD	901337	00735858206396	1	Spare Board for AXX6DRV3GR (6 drive backplane without an expander)
	FXX6DRV3GEXPBRD	879632	00735858180948	1	Spare Board for AXX6DRV3GEXP (6 drive backplane with an expander)
	AXXLCPED	879579	00735858167956	1	<ul style="list-style-type: none"> ■ Intel® Local Control Panel (LCD) for Intel® Chassis SC5650 ■ Note: Fits in unused 5.25" peripheral bay.
	FXX10DVCARBLK	880265	00735858181938	10	Spare Hot-Swap Drive Carrier with black baffle
	FPWRCABLENA	879287	00735858180740	1	Spare North America Power cable for Intel® Server Chassis SC5650 family

Production System SR1630BC


Picture	Product Code	MM #	UPC	MOQ	Description
	SR1630BC	900773	00735858208123	1	<p>Integrated 1U Intel® Server System SR1630BC</p> <p>Includes:</p> <ul style="list-style-type: none"> Intel® Server Board S5500BC (1) Riser Card (2) Non-Redundant chassis fans (1) fixed High Efficiency 400W power supply (2) 3.5" fixed Hard Drive Carriers (1) Slim-Line CD-ROM Bay Brackets (1) Basic Rail Kit and cables <p>Note: No processors, DDR3 memory, hard drives and heat sinks included</p>
	SR1630BCNA	901893	00735858208161	1	<p>Same as Integrated 1U Intel® Server System SR1630BC</p> <p>Includes: North America power cord</p>




Production System SR1630BC Accessory

	AHJBEZBLACK	888348	00735858192163	1	SR1630BC 1U front bezel (Black) for fixed SKU - Optional cosmetic outer bezel without cut out for local control panel (LCP).
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	AXXBRAKETS	863262	00735858168618	1	Fixed Mount Bracket Kit Includes: Set of brackets to hard mount chassis to rack, supports 4 post mounting and 2 post center mounting
	AXXSATADVDRAM	906872	00735858197663	1	SATA Slim-line Optical DVD Drive
	AXXSATADVDRWROM	898051	00735858197670	1	SATA Slim-line Optical DVD +/- re-writeable Drive
	FPWRCABLENA	879287	00735858181129	1	Spare North American Power Cord

Production System SR1630BC Spares

Picture	Product Code	MM #	UPC	MOQ	Description
	AXXBASICRAIL	881096	00735858184748	1	Basic Slide Rail Kit Note: Does not support Cable Management Arm (CMA)





	AHJTPCIERISER	900772	00735858208130	5	Spare Low Profile half-length PCIe2 x8 riser
	FHJT400WPS	899410	00735858203616	1	Spare High Efficiency 400W Power Supply
	FHJTBLOWER	900770	00735858208154	2	Spare System Blower Kit
Not Available	FHJTFIXPMKIT	900771	00735858208147	1	Fixed Drive Maintenance Kit for the Intel® Server System SR1630BC Includes: front panel assembly, CD-ROM brackets, air duct, various cables, and screws





Production RAID Accessories (not including BBU)




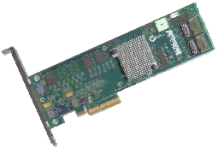
Picture	Product Code	MM #	UPC	MOQ	Description
	AXXRAKSW5	878958	00735858181860	5	Intel® RAID Activation Key AXXRAKSW5 Enables SAS and/or SATA Host-based RAID 5

Production RAID Controller

Picture	Product Code	MM #	UPC	MOQ	Description
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	SRCSASPH16I	896897	00735858201339	5	<p>Intel® RAID Controller SRCAS16PHI – PCIe x8, 16P SAS RAID Controller, and 256MB 667MHz memory embedded. Compatible in SC5650DP/BRP chassis and SC5650BCDP system.</p> <p>Supported in Single processor configuration only</p>
	SRCSASBB8I	896943	00735858201346	5	<p>Intel® RAID Controller SRCASBB8I – PCIe x8, 8P SAS RAID Controller, 256MB embedded memory, MD2 Low Profile, half length form factor. Compatible in both S5650DP/BRP,SC5650BCDP system and SR1630BC.</p> <p>Note: Internal connectors only support SATA drives in the SR1630BC. Battery Back-up Unit (BBU) is not supported in the SR1630BC system due to thermal limitations.</p> <p>Dual processors configuration</p>
	SRCSASLS4I	896952	00735858201353	5	<p>Intel® RAID Controller SRCASLS4I – PCIe x8, 4P SAS RAID Controller, 128MB embedded memory, MD2 Low Profile, half length form factor. Compatible in both S5650DP/BRP,SC5650BCDP system and SR1630BC.</p> <p>Note: Internal connectors only support SATA drives in the SR1630BC. Battery Back-up Unit (BBU) is not supported in the SR1630BC system due to thermal limitations.</p> <p>Dual processors configuration</p>
	SASMF8I	896960	00735858201360	5	<p>Intel® RAID Controller SASMF8I – PCIe x4, 8P SAS Controller with Intel® Embedded Server RAID technology, Low Profile, half length form factor. Compatible in both S5650DP/BRP,SC5650BCDP system and SR1630BC.</p> <p>Note: Internal connectors only support SATA drives in the SR1630BC.</p>

					Supported in Single processor configuration only
	SASUC8I	900176	00735858205115	5	<p>Intel® RAID Controller SASUC8I – PCIe x8, 8P SAS Controller with entry-level HW RAID 0/1/1E/10E, low profile, half-length MD2 compliant form factor. Compatible in both S5650DP/BRP, SC5650BCDP system and SR1630BC.</p> <p>Note: Internal connectors only support SATA drives in the SR1630BC.</p> <p>Supported in Single processor configuration only</p>
	SASWT4I	900267	00735858205108	5	<p>Intel® RAID Controller SASWT4I – PCIe x4, 4P SAS Controller with entry-level HW RAID 0/1/1E/10E, low profile, half-length MD2 compliant form factor. Compatible in both S5650DP/BRP chassis, SC5650BCDP system and SR1630BC.</p> <p>Note: Internal connectors only support SATA drives in the SR1630BC.</p> <p>Dual processors configuration</p>
	SRCSAS144E	883470	00735858182621	5	<p>Intel® RAID Controller SRCAS144E – PCIe x4, 4P SAS Controller. Compatible in SC5650DP/BRP chassis, SC5650BCDP system.</p> <p>Supported in Single processor configuration only</p>
	SRCSAS18E	879066	00735858178143	5	<p>Intel® RAID Controller SRCAS18E – PCIe x8, 8P SAS Controller. Compatible in SC5650DP/BRP, SC5650BCDP system.</p> <p>Supported in Single processor configuration only</p>

	SRCSASRB	892598	00735858196437	5	Intel® RAID Controller SRCSASRB – PCIe4, 8P SAS Controller. Compatible in SC5650DP/BRP chassis, SC5650BCDP system. Supported in Single processor configuration only
	SRCSASJV	892602	00735858210928	5	Intel® RAID Controller SRCSASJV- High performance intelligent SAS/SATA RAID controller with 8 flexible ports. Compatible in SC5650DP/BRP chassis , SC5650BCDP system. Supported in Single processor configuration only
	SRCSASPH16I	896897	00735858210911	5	Intel® RAID Controller SRCSASPH16I – Intelligent SAS/SATA RAID controller with 16 internal ports. Full Height, 6.6-inch by 4.2-inch form factor. Compatible in SC5650DP/BRP chassis , SC5650BCDP system. Supported in Single processor configuration only
	SRCSATAWB	892456	00735858210935	5	Intel® RAID Controller SRCSATAWB – 8 internal ports SATA 3GB (SAS controller supporting SATA hard drives only) Compatible in SC5650DP/BRP chassis , SC5650BCDP system. Supported in Single processor configuration only

Intel® System Management Software – (Upgrade SKUs)

Intel® System Management Software provides upgrade SKUs. Customers may order an upgrade that will give them the ability to manage additional servers and clients.

The following Intel® System Management Software Upgrade SKUs are offered. Each SKU includes a Certificate of Authenticity (COA) that contains a product key for user to enter to upgrade:

Upgrades available to Microsoft* System Center Essentials 2007

- Small Network Edition

This upgrade gives the user the ability to manage up to 5 Windows-based servers OSEs and 15 Windows-based client OSEs.

- Standard Edition

This upgrade gives the user the ability to manage up to 10 Windows-based servers OSEs and 50 Windows-based client OSEs.


- Upgrade to add 1 or 5 Server Management license





This upgrade gives the user the ability to manage 1 or 5 additional Windows-based server OSE.



- Upgrade to add 5 or 20 Client Management licenses

This upgrade gives the user the ability to manage 5 additional Windows-based client OSEs.

Intel® System Management Software – Upgrade Order Codes:

Product Code	UPC	MM #	Description	Picture	MOQ
SMS2SSE2SNE	7 35858 19670 3	893177	Upgrade from 90 day trial Edition to Small Network Edition Not included: Software CDs are not included with upgrade.		1

Product Code	UPC	MM #	Description	Picture	MOQ
SMS2SNE2STD	7 35858 19671 0	893221	Upgrade from Small Network Edition to Standard Edition Not included: Software CDs are not included with upgrade		1
SMS2SSE2STD	7 35858 19672 7	893170	Upgrade from 90 day trial Edition to Standard Edition Not included: Software CDs are not included with upgrade.		1
SMS2CAL1S	7 35858 19675 8	893217	Microsoft® System Center Essentials 2007 Server Management License (1 Pack) Not included: Software CDs are not included with upgrade.		1
SMS2CAL5S	7 35858 19676 5	893218	Microsoft® System Center Essentials 2007 Server Management License (5 Pack) Not included: Software CDs are not included with upgrade.		1




Product Code	UPC	MM #	Description	Picture	MOQ
SMS2CAL5C	7 35858 19673 4	893220	Microsoft® System Center Essentials 2007 Client Management License (5 Pack) Not included: Software CDs are not included with upgrade.		1
SMS2CAL20C	7 35858 19674 1	893219	Microsoft® System Center Essentials 2007 Client Management License (20 Pack) Not included: Software CDs are not included with upgrade.		1

Production Intel Xeon Processor 5500 Series

Processor Name	Boxed Product Code	Boxed Product MM#	Clock Speed	QPI Speed	L3 Cache	Max Memory Speed	# of Cores / Threads	HT	Turbo Boost	Power	UPC Code (Boxed Product Only)
Intel® Xeon® Processor X5570	BX80602X5570	901025	2.93 GHz	6.4 GT/s	8MB	1333 MHz	4 / 8	√	√	95W	7 35858 20569 6
Intel® Xeon® Processor X5560	BX80602X5560	901026	2.80 GHz	6.4 GT/s	8MB	1333 MHz	4 / 8	√	√	95W	7 35858 20570 2
Intel® Xeon® Processor X5550	BX80602X5550	901027	2.66 GHz	6.4 GT/s	8MB	1333 MHz	4 / 8	√	√	95W	7 35858 20571 9
Intel® Xeon® Processor E5540	BX80602E5540	901028	2.53 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	√	√	80W	7 35858 20572 6
Intel® Xeon® Processor E5530	BX80602E5530	901029	2.40 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	√	√	80W	7 35858 20573 3
Intel® Xeon® Processor E5520	BX80602E5520	901030	2.26 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	√	√	80W	7 35858 20574 0
Intel® Xeon® Processor L5520	BX80602L5520	901033	2.26 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	√	√	60W	7 35858 20575 7
Intel® Xeon® Processor E5506	BX80602E5506	901031	2.13 GHz	4.8 GT/s	4MB	800 MHz	4 / 4	N/A	N/A	80W	7 35858 20576 4
Intel® Xeon® Processor L5506	BX80602L5506	901023	2.13 GHz	4.8 GT/s	4MB	800 MHz	4 / 4	N/A	N/A	60W	7 35858 20579 5
Intel® Xeon® Processor E5504	BX80602E5504	901032	2.00 GHz	4.8 GT/s	4MB	800 MHz	4 / 4	N/A	N/A	80W	7 35858 20577 1
Intel® Xeon® Processor E5502	BX80602E5502	901022	1.86 GHz	4.8 GT/s	4MB	800 MHz	2 / 2	N/A	N/A	80W	7 35858 20578 8
Intel® Xeon® Processor L5508	AT8060200269 7AC	901549	2.0 GHz	5.86 GT/s	8MB	1066MHz	2 / 4	√	√	38W	N/A

Intel® Xeon® Processor L5518	AT8060200226 5AB	901505	2.13 GHz	5.86 GT/s	8MB	1066MHz	4 / 8	√	√	60W	N/A
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Production Intel Thermal Solution STS100 Series

Product name	Description	Recommended usage*	Maximum CPU TDP	Boxed Product Code	MM#	UPC Code	Picture
Intel® Thermal Solution STS100C	Passive/Active Combination Heat Sink with Removable Fan	<p>With fan installed:</p> <ul style="list-style-type: none"> - Pedestal chassis that provide adequate ventilation and correct temperature air to heat sink <p>With fan removed:</p> <ul style="list-style-type: none"> - Pedestal chassis with ducted airflow to heat sink - 2U or larger rack chassis* with ducted airflow to heat sink 	130W	BXSTS100C	900491	7 35858 20515 3	
Intel® Thermal Solution STS100A	Active Heat Sink with Fixed Fan	Pedestal chassis that provide adequate ventilation and correct temperature air to heat sink	80W	BXSTS100A	900490	7 35858 20513 9	
Intel® Thermal Solution STS100P	25.5mm Tall Passive Heat Sink	1U or 2U rack and blade chassis with ducted airflow to heat sink	95W	BXSTS100P	900492	7 35858 20514 6	

Heat Sink Configuration Guide

Chassis/System SKU	Heat Sink Includes	Intel® Thermal Solution STS100C (w/ fan, Active mode)	Intel® Thermal Solution STS100A (Active)	Intel® Thermal Solution STS100P (Passive)
SC5650DP	No	√	√	X
SC5650BRP	No	√	√	X
SR1630BC	No	x	x	√
SC5650BCDP	No	√	√	X
	Maximum CPU TDP	95W	80W	95W
	Boxed Product Code	BXSTS100C	BXSTS100A	BXSTS100P

MOQ = Minimum Order Quantity

VMware* vSphere* Virtualization Software Configuration Guide for vSphere* SKUs

Product Descriptions – Overview

VMware vSphere* software is now available when ordering an Intel® Server Board or Intel® Server System. **Customers can only order these SKUs at the time they are ordering an Intel® Server Board or Intel® Server System.** These SKUs cannot be ordered individually. The number of VMware vSphere SKU purchase has to coincide with number of system or boards purchased. Example: Order 10 boards – you can order 10 VMware SKUs. Customers will need to join VMware System Builder Program to get sales support from VMware. For support information please visit: <http://www.vmware.com/partners/partners.html>

VMware vSphere* and vCenter* Server SKUs

The following VMware vSphere SKUs are offered when purchasing a qualifying Intel® Server Board or Intel® Server System. Each SKU contains a software product activation code for user to enter to download software and install. As directed on the certificate, the end user must register the product activation code with VMware at <http://www.vmware.com/code/intel> within 30 days to access VMware Software, Support and Subscription Services.

VMware vSphere* and vCenter* Server SKUs

- Essentials
This license activation code gives the user VMware vSphere* 4 Essentials Bundle for 3 hosts (Max 2 processors per host and 6 cores per processor), with 1 year VMware Subscription.
- Essentials Plus
This license activation code gives the user VMware vSphere* 4 Essentials Plus Bundle for 3 hosts (Max 2 processors per host and 6 cores per processor), with 1 year VMware Gold Support and Subscription.
- Standard
This license activation code gives the user VMware vSphere* 4 Standard for 1 Processor (Max 6 cores per CPU), with 1 year VMware Gold Support and Subscription.
- Advanced
This license activation code gives the user VMware vSphere* 4 Advanced for 1 Processor (Max 12 cores per CPU), with 1 year VMware Gold Support and Subscription.
- Enterprise Plus
This license activation code gives the user VMware vSphere* 4 Enterprise Plus for 1 Processor (Max 12 cores per CPU), with 1 year VMware Gold Support and Subscription.
- VMware vCenter* Server Standard for vSphere*
This license activation code gives the user VMware vCenter* Server 4 Standard for vSphere* (Includes Orchestrator and Linked Mode), with 1 year VMware Gold Support and Subscription.

VMware vSphere* and VMware vCenter* Standard – Order Codes:

Product Code	UPC	MM	Description	MOQ
VMW4ESS	7 35858 21272 4	904791	Software license activation code certificate for VMware vSphere* 4 Essentials Bundle for 3 hosts (Max 2 CPUs per host and 6 cores per CPU) with 1 year VMware Subscription.	1
VMW4ESSPLUS	7 35858 21273 1	904792	Software license activation code certificate for VMware vSphere* 4 Essentials Plus Bundle for 3 hosts (Max 2 CPUs per host and 6 cores per CPU) with 1 year VMware Gold Support and Subscription.	1
VMW4STD	7 35858 21274 8	904793	Software license activation code certificate for VMware vSphere* 4 Standard for 1 Processor (Max 6 cores per CPU) with 1 year VMware Gold Support and Subscription.	1
VMW4ADV	7 35858 21275 5	904797	Software license activation code certificate for VMware vSphere* 4 Advanced for 1 Processor (Max 12 cores per CPU) with 1 year VMware Gold Support and Subscription.	1
VMW4ENTPLUS	7 35858 21276 2	904800	Software license activation code certificate for VMware vSphere* 4 Enterprise Plus for 1 Processor (Max 12 cores per CPU) with 1 year VMware Gold Support and Subscription.	1
VMWVCSTD	7 35858 21277 9	904801	Software license activation code certificate for VMware vCenter* Server 4 Standard (includes Orchestrator and Linked Mode) with 1 year VMware Gold Support and Subscription.	1