

**Intel® Server Board S5520HC,  
Intel® Server Board S5500HCV,  
Intel® Server Board S5520HCT,  
Intel® Workstation Board S5520SC,  
Intel® Server Chassis SC5600,  
Intel® Server Chassis SC5650,  
Intel® Server System SC5650HCBRP,  
Intel® Workstation System SC5650SCWS**

## **Spares Parts List & Configuration Guide**

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Board S5520HC, Intel® Server Board S5520HCT, Intel® Server Board S5500HCV, and Intel® Workstation Board S5520SC with appropriate Intel chassis.



Rev 2.4

June 2011

Enterprise Platforms and Services Marketing

---

**Disclaimer**

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

Intel products are not intended for use in medical, life saving, life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel server boards, server chassis, and processors may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel, Intel Xeon, Pentium, and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

\*Other names and brands may be claimed as the property of others.

Copyright © 2010, Intel Corporation

<b>Contents .....</b>	<b>3</b>
Production Configuration.....	4
Production Board SKUs .....	8
Production System .....	10
Production Chassis.....	12
Production Spares and Accessories .....	14
Production RAID Accessories (not including BBU) .....	20
Production RAID Expander Card.....	21
Production RAID Controller.....	21
Intel Tested Memory List .....	23
Intel THOL List .....	24
Intel® System Management Software – (Upgrade SKUs).....	25
Supported Processor List .....	27
Production Intel Thermal Solution STS100 Series .....	28
Heat Sink Configuration Guide .....	28
VMware* vSphere* Virtualization Software Configuration Guide for vSphere* SKUs	29
Product Descriptions – Overview.....	29
VMware vSphere* and vCenter* Server SKUs.....	29

## Production Configuration

This section contains information needed to order and configure the Intel® Server System SC5650HCBRP, Intel® Workstation System SC5650SCWS, and Intel® Server Chassis SC5600, SC5650 Family with Intel® Server Board S5520HC, S5520HCT and S5500HCV and Intel® Workstation Board S5520SC.

- 1) Production boxed Intel Server Boards contain the following:
  - One baseboard with unified back plate assembly
  - ATX I/O shield
  - Cables: Serial B (COM2), 4 SAS/SATA cables
  - Resource CD-ROM with utilities, drivers, documentation and technical information\*
  - Quick Start User's Guide and Quick Reference Label
  - ISMS CD\*
  - Compatible with Intel® Xeon® processor 5500 series & 5600 series
- 2) Production OEM 10-packs of Intel Server Boards contain the following:
  - One baseboard with unified back plate assembly
  - Compatible with Intel® Xeon® processor 5500 series & 5600 series
- 3) The production SC5600LX KDK is compatible with the Intel® Server Boards S5520HC and S5500HCV. it includes:
  - Redundant (1+1) PMBus-compliant 750W high efficiency PFC power supply with dual line cord support (2<sup>nd</sup> redundancy 750W high efficiency PFC module included)
  - Four redundant, hot-swap fans and ducting
  - Support for six tool-free non hot-swap hard drives. Upgradeable to 10 cabled or 10 (6+4 configuration) hot-swap SAS or SATA drives.
  - Quick Start User's Guide and Configuration Label
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - COM2 Cable
    - Adapter Cable providing two additional SATA power connectors
    - AC power cords are included only in SC5600LXNA
  - Five Bumpers for installing Intel® Server Board S5520HC or S5500HCV
  - The Intel® Server Chassis SC5600LX is designed to work with Intel® Xeon® processor 5500 series with 95W maximum power or with Intel® Xeon® processor 5600 series with 130W maximum power and **FXXRGTHSINK or FXXRGTHS** tower heat sink accessory (required).
- 4) The production Intel® Server Chassis SC5600BRP KDK is compatible with the Intel® Server Boards S5520HC and S5500HCV. it includes:
  - Redundant (1+1) PMBus-compliant 750W high efficiency PFC power supply with dual line cord support (2<sup>nd</sup> redundancy 750W high efficiency PFC module included)
  - Three non-redundant fixed cooling fans with ducting
  - Support for six tool-free non hot-swap hard drives. Upgradeable to 10 cabled or 10 (6+4 configuration) hot-swap SAS or SATA drives.
  - Quick Start User's Guide and Configuration Label
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)

- COM2 Cable
  - Adapter Cable providing two additional SATA power connectors
  - AC power cords are included only in SC5600BRPNA
  - Five Bumpers for installing Intel® Server Board S5520HC, S5500HCV
  - The Intel® Server Chassis SC5600BRP is designed to work with Intel® Xeon® processor 5500 series with 95W maximum power or with Intel® Xeon® processor 5600 series with 130W maximum power, and is compatible with BXSTS100C (Combo) or BXSTS100A (Active) heat sink.
- 5)** The production Intel® Server Chassis SC5600 Base KDK is compatible with Intel® Server Chassis S5520HC, S5500HCV, and Intel® Workstation Board S5520SC. It includes:
- Non-redundant 670W PFC power supply
  - Three non-redundant fixed cooling fans with ducting
  - Support for six tool free non hot-swap hard drives. Upgradeable to 6 hot-swap SAS or SATA.
  - Quick Start User's Guide and Configuration Label
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - COM2 Cable
    - Adapter Cable providing two additional SATA power connectors
    - AC power cord is included only with SC5600BASENA.
  - Five Bumpers for installing Intel® Server Board S5520HC, S5500HCV, and Intel® Workstation Board S5520SC.
  - The Intel® Server Chassis SC5600BASE is designed to work with Intel® Xeon® processor 5500 series with 95W maximum power or with Intel® Xeon® processor 5600 series with 130W maximum power, and is compatible with BXSTS100C (Combo) or BXSTS100A (Active) heat sink.
- 6)** The production Intel® Workstation Chassis SC5650WS SKU is compatible with the Intel® Workstation Board S5520SC. It includes:
- Non-redundant 1000W high efficiency PFC power supply
  - Three non-redundant fixed cooling fans with ducting
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - Quick Start User's Guide
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Adapter Cable providing two additional SATA power connectors
    - AC power cord is included only with SC5650WSNA
  - Chassis intrusion switch assembly
  - Five Bumpers for installing Intel® Workstation Board S5520SC.
  - The chassis is designed to work with Intel® Xeon® processor 5500 series & 5600 series with 130W maximum power, and is compatible with BXSTS100C (Combo) or BXSTS100A (Active) heat sink.
- 7)** The production Intel® Server Chassis SC5650DP SKU is compatible with the Intel® Server Board S5520SC, S5500HCV, and S5500BC. It includes:
- Non-redundant 600W PFC power supply
  - Three non-redundant fixed cooling fan with ducting
  - Support for six tool-free non hot-swap 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)
    - Adapter Cable providing two additional SATA power connectors
    - AC power cord is only included in SC5650DPNA
  - Chassis intrusion switch assembly
  - Five Bumpers for installing Intel® Server Board S5520SC, S5500HCV, and S5500BC.
  - The chassis is designed to work with Intel® Xeon® processor 5500 series with 95W maximum power or with Intel® Xeon® processor 5600 series with 130W maximum power, and is compatible with boxed STS100C (Combo) or STS100A (Active) heat sink.
- 8)** The production Intel® Server Chassis SC5650BRP SKU is compatible with the Intel® Server Board S5520SC, S5500HCV, and S5500BC. It includes:
- Redundant (1+0) PMBus-compliant 600W high efficiency PFC power supply with dual line cord support (full redundancy requires additional 600W module purchased separately)
  - Three non-redundant fixed cooling fan with ducting
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - Quick Start User's Guide
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Adapter Cable providing two additional SATA power connectors
    - AC power cord is only included in SC5650BRPNA
  - Chassis intrusion switch assembly
  - Five Bumpers for installing Intel® Server Board S5520SC, S5500HCV, and S5500BC.
  - The chassis is designed to work with Intel® Xeon® processor 5500 series with 95W maximum power or with Intel® Xeon® processor 5600 series with 130W maximum power, and is compatible with boxed STS100C (Combo) or STS100A (Active) heat sink.
- 9)** The Intel® Server System SC5650HCBRP includes:
- Intel® Server Board S5520HC pre-installed in the Intel® Server Chassis SC5650BRP
  - Expander-based Intel® Hot Swap Drive Bay AXX6DRV3GEXP pre-installed with cooling and mounting kit (APP3HSDBKIT) in the Intel® Server Chassis SC5650BRP (Require SAS add-in card or SAS module purchased separately)
  - Redundant (1+0) PMBus-compliant 600W high efficiency PFC power supply with dual line cord support (full redundancy requires additional 600W module purchased separately)
  - Three non-redundant fixed cooling fan with ducting
  - Quick Start User's Guide and Configuration Label
  - Cables (one each)
    - Front Panel Cable (baseboard header to front panel, pre-routed))
    - USB Cable (USB header to chassis front panel, pre-routed)
    - Adapter Cable providing two additional SATA power connectors (in cable kit)
    - AC power cord is only included in SC5650HCBRPNA
  - Chassis intrusion switch assembly (pre-routed)

- The server system is designed to work with Intel® Xeon® processor 5500 series with 95W maximum power or with Intel® Xeon® processor 5600 series with 130W maximum power, and is compatible with boxed STS100C (Combo) or STS100A (Active) heat sink.

**10) The Intel® Workstation System SC5650SCWS includes:**

- Intel® Workstation Board S5520SC pre-installed in the Intel® Server Chassis SC5650WS
- Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
- Non-redundant 1000W high efficiency PFC power supply
- Three non-redundant fixed cooling fan with ducting
- Quick Start User's Guide and Configuration Label
- Cables (one each)
  - Front Panel Cable (baseboard header to front panel, pre-routed))
  - USB Cable (USB header to chassis front panel, pre-routed)
  - Adapter Cable providing two additional SATA power connectors (in cable kit)
  - AC power cord is only included in SC5650SCWSNA
- Chassis intrusion switch assembly (pre-routed)
- The workstation system is designed to work with Intel® Xeon® processor 5500 series & 5600 series with 130W maximum power, and is compatible with boxed STS100C (Combo) or STS100A (Active) heat sink.

**11) 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 module or SAS RAID card.
- **AXX4DRV3GEXP:** Expander-based 4-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the SAS module or SAS RAID card. Only supported in Intel® Server Chassis SC5600BRP, and SC5600LX.
- **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 module or SAS RAID Card. Support 6Gb SAS Hard Drives with compatible 6Gb SAS adapters
- **AXX4DRV3GR:** 4-drive bay that supports SAS/SATA drives. Requires four free SAS or SATA ports. SAS hard drive support requires SAS connectors from a SAS module or SAS RAID Card. Only supported in Intel® Server Chassis SC5600BRP and SC5600LX. Support 6Gb SAS Hard Drives with compatible 6Gb SAS adapters.

**AXX750WPS:** Spare 750W power supply module for Intel® Server Chassis SC5600LX and SC5600BRP

**ARIGRACK:** Rack conversion kit (SC5600BASE, SC5600BRP and SC5600LX)

**APP3RACKIT:** Rack conversion kit (SC5600 chassis family).

**AXXRAKSW5:** Intel® RAID Activation Key AXXRAKSW5 to enable Intel Embedded RAID technology II for SAS and/or SATA Software RAID 5 on S5520HC, S5500HCV, and S5520SC boards.









**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.

**AXX25DRVADPTR:** 2.5" hard drive carrier kit for installing 2.5" SATA or SAS hard drive or Solid State Drive into 3.5" hot swap drive bay

## Production Board SKUs






Picture	Product Code	MM #	UPC	MOQ	Description
	S5520HC	900402	00735858207485	5	Boxed Intel® Server Board S5520HC. (Includes I/O shield, cables, resource CD and ISMS CD)
	S5520HCR	905721	00735858213783	5	Boxed Intel® Server Board S5520HCR.(Includes I/O shield, cables, resource CD and ISMS CD)
	BB5520HC	901640	00735858207492	10	Bulk pack of the Intel® Server Board S5520HC
	BB5520HCR	905718	00735858213790	10	Bulk pack of the Intel® Server Board S5520HCR
	S5520HCT	904912	00735858213776	1	Boxed Intel® Server Board S5520HCT. (Includes I/O shield, cables, resource CD and ISMS CD)
	S5500HCV	902386	00735858207508	5	Boxed Intel® Server Board S5500HCV. (Includes I/O shield, cables, resource CD and ISMS CD)
	S5500HCVR	905723	00735858213820	5	Boxed Intel® Server Board S5500HCVR. (Includes I/O shield, cables, resource CD and ISMS CD)
	BB5500HCV	902387	00735858207515	10	Bulk pack of the Intel® Server Board S5500HCV






Picture	Product Code	MM #	UPC	MOQ	Description
	BB5500HCVR	905720	00735858213875	10	Bulk pack of the Intel® Server Board S5500HCVR
	S5520SC	900963	00735858207522	5	Boxed Intel® Workstation Board S5520SC. (Includes I/O shield, cables, resource CD and ISMS CD)
	S5520SCR	905722	00735858213806	5	Boxed Intel® Workstation Board S5520SCR. (Includes I/O shield, cables, resource CD and ISMS CD)
	BB5520SC	901634	00735858207539	10	Bulk pack of the Intel® Workstation Board S5520SC.
	BB5520SCR	905719	00735858213813	10	Bulk pack of the Intel® Workstation Board S5520SCR.

**MOQ** = Minimum Order Quantity.






## Production System







Picture	Product Codec	MM #	UPC	MOQ	Description
	SC5650HCBRP	904553	00735858212557	1	Intel® Server System SC5650HCBRP with (1+0) PMBus-compliant 600W Redundant power supply, 3 fixed chassis fans with ducting, rackable with optional rack kit. Supports up to 6 Hot-Swap drives (SAS or SATA, require SAS add-in card or SAS module purchased separately). Supports Intel® Xeon® processor 5500 series with 95W maximum power or Intel® Xeon® processor 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5650HCBRPR	907331	TBD	1	Intel® Server System SC5650HCBRPR with (1+0) PMBus-compliant 600W Redundant power supply, 3 fixed chassis fans with ducting, rackable with optional rack kit. Supports up to 6 Hot-Swap drives (SAS or SATA, require SAS add-in card or SAS module purchased separately). Supports Intel® Xeon® processor 5500 series with 95W maximum power or Intel® Xeon® processor 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5650HCBRPNA	903806	00735858213196	1	Same as Intel® System SC5650HCBRP with North American power cord included. No heat sinks included.
	SC5650HCBRPRN A	905764	TBD	1	Same as Intel® System SC5650HCBRPR with North American power cord included. No heat sinks included.
	SC5650SCWS	904581	00735858212571	1	Intel® Workstation System SC5650SCWS with 1000W fixed PSU, supports up to two 150W workstation graphics cards or single 300W workstation graphics card, 3 fixed chassis fans with ducting, rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Intel® Xeon® processor 5500 series & 5600 series with 130W maximum power.. No power cord or heat sinks included.


Picture	Product Codec	MM #	UPC	MOQ	Description
	SC5650SCWSR	907332	TBD	1	Intel® Workstation System SC5650SCWSR with 1000W fixed PSU, supports up to two 150W workstation graphics cards or single 300W workstation graphics card, 3 fixed chassis fans with ducting, rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Intel® Xeon® processor 5500 series & 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5650SCWSNA	903836	00735858213202	1	Same as Intel® Workstation System SC5650SCWS with North American power cord. No heat sinks included
	SC5650SCWSRN A	905767	TBD	1	Same as Intel® Workstation System SC5650SCWSR with North American power cord. No heat sinks included

**MOQ** = Minimum Order Quantity.

## Production Chassis




Picture	Product Codec	MM #	UPC	MOQ	Description
	SC5600BASE	900403	00735858207546	1	Intel® Server Chassis SC5600 base version with 670W fixed PSU, 3 fixed chassis fans with ducting. Supports up to 6 tool-free cabled drives, upgradeable to 6 hot-swap drives (SAS or SATA). Supports Intel® Server Board S5520HC, S5500HCV and Intel® workstation board S5520SC. Supports Intel® Xeon® processor 5500 series with 95W maximum power or Intel® Xeon® processor 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5600BASENA	900891	00735858207553	1	Same as Intel® Server Chassis SC5600BASE with North American power cord included. No heat sinks included.
	SC5600BRP	900877	00735858207560	1	Intel® Server Chassis SC5600 base redundant power (BRP) version with (1+1) PMBus-compliant 750W redundant PSU. 3 fixed chassis fans with ducting, includes fixed drive cage to support 6 tool-free cabled drives, upgradeable to 10 fixed, cabled drives or 10 (6+4 configuration) hot-swap SAS or SATA drives. Supports Intel® Server Board S5520HC, S5500HCV. Supports Intel® Xeon® processor 5500 series with 95W maximum power or Intel® Xeon® processor 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5600BRPNA	900913	00735858207577	1	Same as Intel® Server Chassis SC5600BRP with North American power cord included. No heat sinks included.
	SC5600LX	900878	00735858207584	1	Intel® Server Chassis SC5600 LX Chassis with 750W PMBus-compliant (1+1) hot-swap redundant power supply, 4 hot-swap redundant fans with ducting, includes fixed drive cage to support 6 tool-free cabled drives, upgradeable to 10 fixed, cabled drives or 10 (6+4 configuration) hot-swap SAS or SATA drives. Supports Intel® Server Board S5520HC, S5500HCV. Supports Intel® Xeon® processor 5500 series with 95W maximum power or Intel® Xeon® processor 5600 series with 130W maximum power. No power cord or heat sinks included. <b>Special</b>







Picture	Product Codec	MM #	UPC	MOQ	Description
					<b>tower heat sink FXXRGTHSINK or FXXRGTHS required and can be purchased as an accessory.</b>
	SC5600LXNA	900955	00735858207591	1	Same as Intel® Server Chassis SC5600LX with North American power cord included. No heat sinks included. <b>Special tower heat sink FXXRGTHSINK or FXXRGTHS required and can be purchased as an accessory.</b>
	SC5650WS	900339	00735858207416	1	Intel® Workstation Chassis SC5650WS with 1000W fixed PSU, supports up to two 150W workstation graphics cards or single 300W workstation graphics card, 3 fixed chassis fans with ducting, rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Intel workstation board S5520SC. Supports Intel® Xeon® processor 5500 series & 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5650WSNA	900450	00735858207607	1	Same as Intel® Workstation Chassis SC5650WS with North American power cord. No heat sinks included
	SC5650DP	900338	00735858207393	1	Intel® Server Chassis SC5650DP with 600W fixed PSU, 3 fixed chassis fans with ducting, rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). <b>Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.</b> Supports S5520HC, S5500HCV, and S5500BC. Supports Intel® Xeon® processor 5500 series with 95W maximum power or Intel® Xeon® processor 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5650DPNA	900453	00735858207614	1	Same as Intel® Server Chassis SC5650DP with North American power cord. No heat sinks included.
	SC5650BRP	900340	00735858207409	1	Intel® Server Chassis SC5650BRP with (1+0) PMBus-compliant 600W Redundant power supply, 3 fixed chassis fans with ducting, rackable with optional rack kit. Supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Intel® Server Boards S5520HC, S5500HCV, and S5500BC. Supports









Picture	Product Codec	MM #	UPC	MOQ	Description
					Intel® Xeon® processor 5500 series with 95W maximum power or Intel® Xeon® processor 5600 series with 130W maximum power. No power cord or heat sinks included.
	SC5650BRPNA	900452	00735858207621	1	Same as Intel® Server Chassis SC5650BRP with North American power cord. No heat sinks included.

MOQ = Minimum Order Quantity.

### Production Spares and Accessories

Picture	Product Code	MM #	UPC	MOQ	Description
	AXX25DRVADPTR	904083	00735858211567	10	2.5" Hard Disk Drive Carrier Kit, include ten 2.5" drive carriers and installation guide. The 2.5" HDD carrier is for installing 2.5" SAS, SATA, or SSD into 3.5" hot-swap hard disk drive bay. Requires hot-swap backplane assembly cage kit) Ship with 10 carriers in single package. See compatible Intel® chassis and systems at: <a href="http://www.intel.com/support/motherboards/server/sb/CS-030726.htm">http://www.intel.com/support/motherboards/server/sb/CS-030726.htm</a>
	AXX6DRV3GEXP	877235	00735858180283	1	6-drive hot-swap, expander SATA/SAS backplane assembly cage kit for Intel® Server Chassis SC5600/SC5650. Requires 2 SAS ports from SAS module or RAID card and is compatible with SAS or SATA 3.5" hard drives. Includes: backplane board, 6 drive carriers, 2 Data cables, 6-drive bay, IPMB cable, common installation guide, SATA/SAS configuration label.
	AXX4DRV3GEXP	877236	00735858180290	1	4-drive hot-swap expander, SATA/SAS backplane assembly cage kit for Intel® Server Chassis SC5650 family. Requires 2 SAS ports from SAS module or RAID card and is compatible with SAS or SATA 3.5" hard drives. Includes: Backplane board, 4 drive carriers, 2 data cables, 4-drive bay, IPMB cable, common installation guide, SATA/SAS configuration label.  Not supported in SC5600BASE, SC5650DP, SC5650BRP, or SC5650WS

Picture	Product Code	MM #	UPC	MOQ	Description
	AXX6DRV3GR	900405	00735858207638	1	6-drive hot-swap non-expanded SATA/SAS backplane assembly cage kit for Intel® Server Chassis SC5600 / SC5650 family. 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. 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.
	AXX4DRV3GR	900404	00735858207645	1	4-drive hot-swap non-expanded, SATA/SAS backplane assembly cage kit for Intel® Server Chassis SC5600 family. Requires 4 SAS ports from RAID card for SAS (or SATA) 3.5" hard drive support or 4 SATA ports from baseboard or RAID card for SATA 3.5" hard drive support. Includes: Backplane board, 4 drive carriers, 4 data cables, 4-drive bay, IPMB cable, SES cable and SGPIO cable, common installation guide, SATA/SAS configuration label.  Not supported with Intel® Server Chassis SC5600BASE, SC5650DP, SC5650BRP, or SC5650WS
	FXXRGTHSINK	901335	00735858206273	2	Special tower heat sinks required for Intel® Server Chassis SC5600LX, Ship with 2 heat sinks in single package
	FXXRGTHS	904992	00735858212809	2	Special tower heat sinks required for Intel® Server Chassis SC5600LX. Each heat sink is individually packaged and labeled.
	AXXRMM3	900961	00735858206570	1	Intel® Remote Management Module 3 for Intel® Server Board S5520HC, S5500HCV, and Intel® workstation board S5520SC.
	ARIGRACK	88051 1	00735858164603	1	Pedestal to rack conversion kit for Intel® Server Chassis SC5600. Includes: hinge cover; rack handles, intrusion switch jumper, new rail kit assembly, rack hardware kit, icon label, installation guide

Picture	Product Code	MM #	UPC	MOQ	Description
	AXXCMA3U7U	862119	00735858168533	1	Universal 3U to 7U Rack Mode Cable Management Arm (CMA). Requires ARIGRACK.
	APPTHSDBKIT	901181	00735858207676	1	Hot-swap drive mounting Kit for Intel® Server Chassis SC5650, Includes 1 cooling fan, 1 fan holder and 2 Hot-swap cage brackets.  <b>Note:</b> This mounting kit is required when using 6-bay Hot-swap Hard Disk Cage in SC5650 Chassis. This kit should be used with <b>AXX6DRV3GR.</b>
	APP3HSDBKIT	882456	00735858177450	1	Hot-swap drive mounting Kit for Intel® Server Chassis SC5650, Includes 1 cooling fan, 1 fan holder and 2 Hot-swap cage brackets.  <b>Note:</b> This mounting kit is required when using 6-bay Hot-swap Hard Disk Cage in SC5650 Chassis. This kit should be used with <b>AXX6DRV3GEXP.</b>
	APP3RACKIT	882457	00735858177375	1	Rack conversion kit for Intel® Server Chassis SC5650 family. Includes rack rails and hardware for rack installation
	APPT600WHPSU	900984	00735858207324	1	2 <sup>nd</sup> Redundant 600W PSU for Intel® Server Chassis SC5650BRP to enable full, hot-swap power redundancy or use as spare
	FXXSCVDCBL	901767	00735858207768	10	Internal video cable to external VGA port for Intel Workstation Board S5520SC,
	AXX4FIXDB	857882	00735858164702	1	Cabled 4 drive tool-less drive bay assembly for Intel® Server Chassis SC5600. Includes hardware to mount 4 additional non-hot swap drives (for total of up to 10).
	AXXFHDDBRK	868171	00735858172462	1	Bracket accessory for Intel® Server Chassis SC5600 family to install a 3.5" HDD (cabled) or a 3.5" USB floppy in a standard 5.25" drive bay.  Remove the bracket bezel for 3.5" HDD installation.



Picture	Product Code	MM #	UPC	MOQ	Description
	ARIGDLTRAIL	856600	00735858164610	1	DLT Accessory Kit for Intel® Server Chassis SC5600 family -- left and right rails (10 Pack) Permits mounting a full height 5.25" peripheral (e.g. DLT tape drive) in two half height bays.
	ARIGBEZPNL	860750	00735858168489	10	Intel® Server Chassis SC5600 bezel branding panels- (1) upper and (1) lower bezel customization panel.
	AXXRJ45DB92	881944	00735858155212	1	Contains two serial cable converter dongles (RJ45 to DB9) one for DSD and one for DCD (modem). The kit also includes one serial ribbon cable for cabling 2nd serial port from the baseboard. Note: Not use the serial ribbon cable with the Intel® Server Chassis SC5600/SC5650
	AXXTIO	901685	00735858207683	50	I/O Shield for Intel® Server Boards S5520HC, S5500HCV, S5500BC, BB5500BC, BB5520HC, and BB5500HCV.
	ASCIO	901686	00735858207690	50	I/O Shield for Intel® Workstation Board S5520SC and BB5520SC.
	FRIGTPDB	901540	00735858207355	1	Spare Intel® Server Chassis SC5600BRP and LX Redundant Power Supply Power Distribution Board
	FRIGTHSFANKIT	901657	00735858207652	1	Spare Intel® Server Chassis SC5600 hot swap fan kit : Include 1 hot-swap 92mm fan and 1 hot-swap 120 mm fan
	FRIGTFIXFANS	901513	00735858207706	1	Spare fixed 4-wire fan kit for Intel® Server Chassis SC5600BASE and SC5600BRP. Includes 1 front Fan (120mm), 1 rear chassis fan (120mm, blue header), and 1 front PCI zone fan (92mm).
	FXXRIGT670WPSU	901656	00735858207348	1	Spare 670W power supply for Intel® Server Chassis SC5600BASE
	APP3STDBEZEL	871862	00735858177474	1	Spare bezel with door for Intel® Server Chassis SC5650 family.






Picture	Product Code	MM #	UPC	MOQ	Description
	FXXPPT600WPSU	901184	00735858207317	1	Spare 600W PSU for Intel® Server Chassis SC5650DP
	FPPTBRPCAGE	901183	00735858207331	1	<p>Spare Intel® Server Chassis SC5650BRP redundant power supply cage. Includes power distribution board and filler (for empty module when only 1 module installed).</p> <p>Also used to upgrade Intel® Server Chassis SC5650DP or SC5650WS to redundant power configuration. Requires 1 (or 2) <b>APPT600WHPSU</b> and the <b>hot-swap redundant power supply supporting kit</b> (provided by <b>FPPTPMKIT</b>) to complete upgrade.</p> <p>See SC5650 chassis Service Guide for upgrade instruction.</p>
	FPPTFANKIT4W	901182	00735858207713	1	Spare 4-wire fan kit for Intel® Server Chassis SC5650 family. Includes 1 front PCI zone Fan (120mm), 1 rear chassis fan (120mm, blue header), and 1 HDD cage fan (92mm).
	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
	FXX4DRV3GRBRD	901336	00735858206389	1	Spare board for AXX4DRV3GR (4 drive backplane without an expander).




Picture	Product Code	MM #	UPC	MOQ	Description
	FXX4DRV3GEXPBRD	879633	00735858180931	1	Spare board for AXX4DRV3GEXP (4 drive backplane with an expander).
	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).
	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 SC5600, SC5650 family
	FXX1000WHEPS	904977	00735858213226	1	Spare 1000W PSU for Intel® Server Chassis SC5650WS
	AXX750WPS	901681	00735858207294	1	Spare 750W power supply module for Server Chassis SC5600LX and SC5600BRP
	FXXRIGTFPBRD	901441	00735858208055	1	Spare front panel board for Intel® Server Chassis SC5600
N/A	FRIGTPMKIT	901658	00735858207669	1	Chassis Preventative Maintenance kit for Intel® Server Chassis SC5600 family. Includes 1 Front Panel USB Cable; 1 Serial Cable; 1 Front 92mm Fixed Fan Holder with screws; 1 Front 120mm Fixed Fan Holder with screws; 1 Rear 120mm Fixed Fan Holder with screws; 4 Hot Swap Fan Wires , 1 Bezel Intrusion Switch, 2 sets / 4 pcs 5.25" tool-less bay rails, 2 sets / 4 pieces of fixed hard drive bay rails, 4 chassis feet, 1 Air Duct for Intel® Server SC5600BASE/BRP, 1 Air Duct for Intel® Server Chassis SC5600LX

Picture	Product Code	MM #	UPC	MOQ	Description
N/A	FPPTPMKIT	901659	00735858207720	1	Chassis Preventative Maintenance Kit for Intel® Server Chassis SC5650 family. Includes 2 Hard Drive Bay Lockers with Screws and Spring, 1 Air Duct, (1) Intrusion Switch Assembly, 1 USB Cable, 1 Rear 120mm Fixed Fan Holder with Screws, 1 Fan Holder with Screws for 92mm fan, 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 on SC5650DP/WS

MOQ = Minimum Order Quantity.


### Production RAID Accessories (not including BBU)

Picture	Product Code	MM #	UPC	MOQ	Description
	AXX4SASMOD	900946	00735858206372	1	Intel® SAS Entry RAID Module AXX4SASMOD provides 4 port pass through SAS, entry-level RAID 0/1/1E, and optional host RAID 5.: Includes 1 AXX4SASMOD module card; 3 snap standoffs, 4 SAS/SATA cables, Configuration Label and Quick Installation Guide
	AXXROMBSASMR	901641	00735858208017	1	Intel® Integrated RAID Module SROMBSASMR provides 4 ports full featured SAS/SATA RAID 0, 1, 5, 6 and striping capability for spans 10, 50, 60. 128 MB cache. Up to 16 SAS/SATA HDDs with expander enclosures. No PCI-E slot used. Optional backup battery AXXRSBBU3 should be ordered separately.
	AXXRMS2AF080	907853	00735858215732	5	Intel® Integrated RAID Module RMS2AF080 provides 8 port entry-level SAS-2/6Gbps RAID 0,1,5 and striping capability for spans 10, 50. Includes cables. No BBU option.
	AXXRMS2AF040	907854	00735858215756	5	Intel® Integrated RAID Module RMS2AF040 provides 4 port entry-level SAS-2/6Gbps RAID 0,1,5 and striping capability for spans 10, 50. Includes cables. No BBU option
	AXXRMS2LL080	907855	00735858215749	5	Intel® Integrated RAID Module RMS2LL080 provides 8 port basic RAID 0/1/1E and JBOD mode. Includes cables. No BBU option.




	AXXRMS2LL040	907855	00735858215763	5	Intel® Integrated RAID Module RMS2LL040 provides 4 port basic RAID 0/1/1E and JBOD mode. Includes cables. No BBU option
	AXXRSBBU3	900954	00735858181853	1	Intel® RAID Smart Battery AXXRSBBU3, optional battery back up for use with AXXROMBSASMR, AXXRAK18E and SRC SAS144E. RoHS Compliant.
	AXXRAKSW5	878958	00735858181860	5	Intel® RAID Activation Key AXXRAKSW5 to enable SAS and/or SATA Software RAID 5




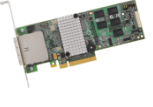

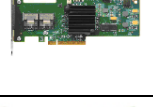

MOQ = Minimum Order Quantity








### Production RAID Expander Card

Picture	Product Code	MM #	UPC	MOQ	Description
	RES2SV240	908137	00735858216289	5	Intel® RAID Expander Card RES2SV240 - 6Gb/s SAS/SATA, 4 input/20 output ports or 8 input/16 output ports, MD2 form factor.

### Production RAID Controller

Picture	Product Code	MM #	UPC	MOQ	Description
	RS2SG244	904995	TBD	5	Intel® RAID Controller RS2SG244 - 6Gb/s SAS, 3Gb/S SAS/SATA, x8 PCIe 2.0, 24 internal and 4 external ports, 512MB embedded memory, full height half length form factor.
	RS2WG160	904994	TBD	5	Intel® RAID Controller RS2WG160 - 6Gb/s SAS, 3Gb/S SAS/SATA, x8 PCIe 2.0, 16 internal ports, 512MB embedded memory, full height half length form factor.
	RS2BL080	903493	00735858210140	5	Intel® RAID Controller RS2BL080 (Big Laurel 8) - 6Gb/s SAS, 3Gb/S SAS/SATA, x8 PCIe 2.0, 8 internal ports, 512MB embedded memory, MD2 Low Profile, half length form factor. Includes 2 internal cables, Quick Start Users Guide, and CD ROM with technical documentation and software.

Picture	Product Code	MM #	UPC	MOQ	Description
	RS2BL080DE	903497	TBD	5	Intel® RAID Controller RS2BL080 “DE” (Big Laurel 8 supporting Disk Encryption) - 6Gb/s SAS, 3Gb/S SAS/SATA, x8 PCIe 2.0, 8 internal ports, 512MB embedded memory, MD2 Low Profile, half length form factor. Provides key and management for Self-Encrypting Disks. Includes 2 internal cables, Quick Start Users Guide, and CD ROM with technical documentation and software.
	RS2BL040	903494	TBD	5	Intel® RAID Controller RS2BL040 (Big Laurel 4) - 6Gb/s SAS, 3Gb/S SAS/SATA, x8 PCIe 2.0, 4 internal ports, 512MB embedded memory, MD2 Low Profile, half length form factor. Includes 2 internal cables, Quick Start Users Guide, and CD ROM with technical documentation and software.
	RS2PI008	903492	00735858211222	5	Intel® RAID Controller RS2PI008 - 6Gb/s SAS, 3Gb/S SAS/SATA, x8 PCIe 2.0, 8 external ports, 512MB embedded memory, MD2 Low Profile, half length form factor. Includes Quick Start Users Guide, and CD ROM with technical documentation and software.
	RS2PI008DE	TBD	TBD	5	Intel® RAID Controller RS2PI008 “DE” model (indicating Disk Encryption support) - 6Gb/s SAS, 3Gb/S SAS/SATA, x8 PCIe 2.0, 8 external ports, 512MB embedded memory, MD2 Low Profile, half length form factor. Provides key and management for Self-Encrypting Disks. Includes Quick Start Users Guide, and CD ROM with technical documentation and software.
	RS2MB044	904993	TBD	5	Intel® RAID Controller RS2MB044 - PCIe x8, Mainstream 6G SAS RAID controller with 4 internal and 4 external ports for SAS/SATA drives.
	RS2WC080	903495	TBD	5	Intel® RAID Controller RS2WC080 - Entry-level 6G SAS RAID controller with 8 internal ports for SAS/SATA drives.
	RS2WC040	903495	TBD	5	Intel® RAID Controller RS2WC040 - Entry-level 6G SAS RAID controller with 4 internal ports for SAS/SATA drives.

Picture	Product Code	MM #	UPC	MOQ	Description
	SRCSASBB8I	896943	00735858201346	5	Intel® RAID Controller SRCASBB8I - PCIe x8, 8P SAS RAID Controller, 256MB embedded memory, MD2 Low Profile, half length form factor.
	SRCSASRB	892598	00735858196437	5	Intel® RAID Controller SRCASRB - PCIe x4, 8P SAS RAID Controller, and 256 MB embedded memory.
	SRCSATAWB	892456	00735858196420	5	Intel® RAID Controller SRCATAWB - PCIe x4, 8 port SATA RAID Controller, 128MB embedded memory, 16 physical devices, >8 requires expander backplane.
	SRCSASLS4I	896952	00735858201353	5	Intel® RAID Controller SRCASLS4I - PCIe x8, 4P SAS RAID Controller, 128MB embedded memory, MD2 Low Profile, half length form factor.
	SASMF8I	896960	00735858201360	5	Intel® RAID Controller SASMF8I - PCIe x4, 8P SAS Controller with Intel Embedded Server RAID technology, Low Profile, half length form factor.
	SASUC8I	900176	00735858205115	5	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.
	SASWT4I	900267	00735858205108	5	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.

**MOQ** = Minimum Order Quantity.

### Intel Tested Memory List

- Please visit <http://www.intel.com/support/motherboards/server/s5520hc/sb/CS-030221.htm> for the latest tested memory list of Intel® Server Boards S5520HC and S5500HCV, and Intel® Server System SC5650HCBRP
- Please visit <http://www.intel.com/support/motherboards/server/s5520sc/sb/CS-030229.htm> for the latest tested memory list of Intel® Workstation Board S5520SC and Intel® Workstation System SC5650SCWS

## Intel THOL List

- Please visit <http://www.intel.com/support/motherboards/server/s5520sc/sb/CS-030228.htm> for the latest tested hardware list of Intel® Workstation Board S5520SC and Intel® Workstation System SC5650SCWS
- Please visit <http://www.intel.com/support/motherboards/server/s5520sc/sb/CS-030230.htm> for the latest tested operating system list of Intel® Workstation Board S5520SC and Intel® Workstation System SC5650SCWS
- Please visit <http://www.intel.com/support/motherboards/server/s5520hc/sb/CS-030220.htm> for the latest tested hardware list of Intel® Server Boards S5520HC and S5500HCV, and Intel® Server System SC5650HCBRP
- Please visit <http://www.intel.com/support/motherboards/server/s5520hc/sb/CS-030222.htm> for the latest tested operating system list of Intel® Server Boards S5520HC and S5500HCV, and Intel® Server System SC5650HCBRP



## Intel® System Management Software – (Upgrade SKUs)

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 or 20 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  <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2SNE2STD	7 35858 19671 0	893221	Upgrade from Small Network Edition to Standard Edition  <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2SSE2STD	7 35858 19672 7	893170	Upgrade from 90 day trial Edition to Standard Edition  <b>Not included:</b> Software CDs are not included with upgrade.		1

Product Code	UPC	MM	Description	Picture	MOQ
SMS2CAL1S	7 35858 19675 8	893217	Microsoft® System Center Essentials 2007 Server Management License (1 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2CAL5S	7 35858 19676 5	893218	Microsoft® System Center Essentials 2007 Server Management License (5 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2CAL5C	7 35858 19673 4	893220	Microsoft® System Center Essentials 2007 Client Management License (5 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1
SMS2CAL20C	7 35858 19674 1	893219	Microsoft® System Center Essentials 2007 Client Management License (20 Pack) <b>Not included:</b> Software CDs are not included with upgrade.		1

## **Supported Processor List**



For a complete list of supported processors for use with the Intel® Server Board S5520HC/S5520HCR/ S5500HCV/S5500HCVR/S5520HCT, and Intel® Server System SC5650HCBRP/SC5650HCBRPR/SC5650HCBRPNA/SC5650HCBRPRNA go to this link:

<http://www.intel.com/support/motherboards/server/sb/CS-030213.htm>

For a complete list of supported processors for use with the Intel® Workstation Board S5520SC/S5520SCR and Intel® Workstation System SC5650SCWS/SC5650SCWSR/SC5650SCWSNA/SC5650SCWSRNA go to this link:

<http://www.intel.com/support/motherboards/server/sb/CS-030213.htm>

## Production Intel Thermal Solution STS100 Series

Product name	Description	Recommended usage	Maximum CPU TDP	Boxed Product Code	MM#	UPC Code	
Intel® Thermal Solution STS100C	Passive/Active Combination Heat Sink with Removable Fan	<p><b>With fan installed:</b></p> <ul style="list-style-type: none"> <li>- Pedestal chassis that provide adequate ventilation and correct temperature air to heat sink</li> </ul> <p><b>With fan removed:</b></p> <ul style="list-style-type: none"> <li>- Pedestal chassis with ducted airflow to heat sink</li> <li>- 2U or larger rack chassis* with ducted airflow to heat sink</li> </ul>	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	

## Heat Sink Configuration Guide

S5520HC	S5500HCV	S5520SC	S5500BC	Chassis SKU	Heat Sink Includes	Intel® Thermal Solution STS100C (w/ fan, Active mode)	Intel® Thermal Solution STS100A (Active)	FXXRGTHSINK Or FXXRGTHS (Passive Tower Heat Sink)
Support	Support	Support	N/A	<b>SC5600Base</b>	No	Support	Support	N/A
Support	Support	N/A	N/A	<b>SC5600BRP</b>	No	Support	Support	N/A
Support	Support	N/A	N/A	<b>SC5600LX</b>	No	N/A	N/A	Required
Support	Support	N/A	Support	<b>SC5650DP</b>	No	Support	Support	N/A
Support	Support	N/A	Support	<b>SC5650BRP</b>	No	Support	Support	N/A
N/A	N/A	Support	N/A	<b>SC5650WS</b>	No	Support	Support	N/A

## **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.

### **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

**Note:**

1. Not supported with Intel® Server Board S5500HCV, Intel® Workstation Board S5520SC, or Intel® Workstation System SC5650SCWS
2. Please see the VMware\* vSphere\* 4 recipe at <http://www.intel.com/go/esaa> for the tested configuration of your Intel® Server Board S5520HC based system
3. At least one board or system must be ordered along with order of VMware SKU. 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>.