Intel® Server System SC5400RA

Spares Parts List & Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel Server System SC5400RA.

Rev 1.11

December, 2006

~ Subject to Change ~

Change History:

9/29/06	Rev 1.0	Production release
11/13/06	Rev 1.1	ARIGHSFAN & 5300 Series Update
12/5/06	Rev 1.11	Fixed AXXLCPPED in accessories table

Contents

Production SKU Details and Contents

Configuration for the production SC5400RA system

This section highlights the production configuration for the SC5400RA system.

1) The production Intel Server System SC5400RA includes:
   - 16-DIMM board installed in the SC5400BRP chassis with 16 DIMM cage.
   - Redundant (1+0) 830W PFC power supply with dual line cord support (full redundancy requires additional 830W module purchased separately)
   - Two non-redundant fans and ducting
   - Support for six tool free non hot-swap hard drives. Upgradeable to 6 hot-swap SAS or SATA.
   - Two tower heat sinks (Note: Both must be installed during operation and are not interchangeable with the Intel boxed processor heat sinks)
   - I/O shield
   - Cables (one each):
     - o Front Panel Cable (baseboard header to front panel)
     - o USB Cable (USB header to chassis front panel)
     - o Pre-routed IDE cable
     - o COM2 Cable
     - o 6 SAS/SATA cables
     - o Note: no AC power cords are included
   - Resource CD-ROM, with utilities, drivers, and documentation
   - 3rd party SW CD-ROM
   - Labels

   Integration note: the SC5400RA is designed to work only with custom tower heat sinks included.
2) Common accessories include:
   - Hot Swap Drive Bays
     - o **AXX6DRV3GEXP:** Expander-based 6-drive bay that supports SAS/SATA drives. Requires two free SAS ports from a SAS RAID controller card.
     - o **AXX6DRV3G:** 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 RAID controller card. Not supported with the SRCSAS144E RAID card.
   - **FXX830WPSU**: Additional 830W power supply module. Second module, purchased separately is required for full redundancy
   - **ARIGRACK:** Rack conversion kit
   - **AXXRAKSW5:** Intel® RAID Activation Key AXXRAKSW5 to enable Intel Embedded RAID technology for SAS and/or SATA Software RAID 5.
   - **ARIG2HSFANKIT:** Adds hot-swap, redundant cooling to SC5400RA system. *Note: Only compatible with Intel® Xeon® 5100 series and Intel® Xeon® 5300 processors with processor numbers: E5345, E5320, E5310. Will require a BIOS/Firmware upgrade available in December 2006.
3) Either the tray or boxed processors with active or passive heat-sinks can be used since the SC5400RA Server System is designed to work with only the heat-sinks included with the system. Order codes for both the active heat-sinks process are shown below.

Processor Number	Active Heat-sink	Passive Heat-sink
X5355 (2.67 GHz, 1333 MHz FSB)	BX80563X5355A	BX80563X5355P
E5345 (2.33 GHz, 1333MHz FSB)	BX80563E5345A	BX80563E5345P
E5320 (1.86 GHz, 1066MHz FSB)	BX80563E5320A	BX80563E5320P
E5310 (1.6 GHz, 1066MHz FSB)	BX80563E5310A	BX80563E5310P
5160 (3.00 GHz, 1333MHz FSB)	BX805565160A	BX805565160P
5150 (2.667 GHz, 1333MHz FSB)	BX805565150A	BX805565150P
5148 (2.333 GHz, 1333MHz FSB)	BX805565148A	BX805565148P
5140 (2.33 GHz, 1333MHz FSB)	BX805565140A	BX805565140P
5130 (2.00 GHz, 1333MHz FSB)	BX805565130A	BX805565130P
5120 (1.688 GHz, 1066MHz FSB)	BX805565120A	BX805565120P
5110 (1.6 GHz, 1066MHz FSB)	BX805565110A	BX805565110P
5080 (3.73 GHz, 1066MHz FSB)	BX805555080A	BX805555080P
5060 (3.20 GHz, 1066MHz FSB)	BX805555060A	BX805555060P
5050 (3.00 GHz, 667MHz FSB)	BX805555050A	BX805555050P
5030 (2.67 GHz, 667MHz FSB)	BX805555030A	BX805555030P

Production System SKUs

Product Code	MM #	UPC	Description
SC5400RA	877842	00735858180115	SC5400RA: 16-DIMM Integrated SKU - Includes 16 DIMM board (G1), 16 DIMM chassis (SC5400BRP with memory riser support), I/O shield, 2ea. tower heat sinks, SATA cables, & 2 memory risers. No power cord included.
SC5400RANA	880614	00735858180122	Same as above with North American power cord.

Production Spares and Accessories

Product Code	MM #	UPC	Qty. Included	Description
AXX6DRV3GEXP	877235	00735858180283	1	SC5400/SC5299 6-drive hot-swap, expander, SATA/SAS backplane assembly. Requires 2 SAS ports from ROMB card 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.
AXX6DRV3G	877237	00735858180306	1	SC5400 / SC5299-E 6-drive hot-swap, non-expanded, SATA/SAS supported backplane assembly. 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. Not supported with the SRCSAS144E RAID card.
AXXRMM	877421	00735858182393	1	Intel Remote Management Module for SC5400RA.
FXX830WPSU	877872	00735858180269	1	SC5400RA, SC5400LX and SC5400BRP 830W Optional, redundant power supply module.
ARIG2HSFANKIT	877868	00735858180191	1	SC5400 hot swap fan upgrade kit- 2 pairs of each fan, hot swap fan cables (4ea), installation guide and label. Adds hot-swap, redundant cooling to SC5400BRP chassis. **Note: Only compatible with Intel® Xeon® 5100 series and Intel® Xeon® 5300 processors with processor numbers: E5345, E5320, E5310. Will require a BIOS/Firmware upgrade available in December 2006.**
AXXLCPPED	879579	00735858167956	1	Intel® Local Control Panel (LCD) for SC5400, SC5300 and SC5299 pedestal chassis. Fits in unused 5.25" peripheral bay.
ARIGRACK	880511	00735858164603	1	SC5400/SC5300 pedestal to rack conversion kit. Includes: hinge cover; rack handles, intrusion switch jumper, new rail kit assembly, rack hardware kit, icon label, installation guide
ARIGRACKCVR	880720	00735858168496	1	SC5400/SC5300 optional unpainted removable side (top) cover. Can be used in rack conversion mode if unpainted top cover is desired.
AXXCMA3U7U	862119	00735858168533	1	Universal 3U though 7U Rack Mode Cable Management Arm (CMA). Requires ARIGRACK.
AXXCDUSBFDBRK	879232	00735858180627	1	SC5400 and SC5299 family: 5.25" slim-line CD/DVD/Floppy bracket, hardware kit, interface board, installation guide. Permits installation of a slim-line floppy (via USB) and slim-line optical drive in one 5.25" peripheral bay. (Slim-line optical and floppy drives not included)
AXXSCD	880561	00735858169271	1	Slim line CD for use with SC5400 adapter AXXCDUSBFDBRK.
AXXUSBFLOPPY	881267	00735858183260	1	Internal slim-line floppy kit for SR2500 or SR1500. The slim-line USB floppy drive in this kit can be used with AXXCDUSBFDBRK and a slim-line optical device.
AXXDVDCDR	880559	00735858164962	1	DVD/CDR slim line drive for SC5300. Supports DVD/CD and CD write. Works with SC5400 adapter AXXCDUSBFDBRK.
ARIG2PMKIT	878328	00735858180207	1	SC5400 chassis preventive maintenance kit. Includes; front panel board, front panel cable, serial cable, USB cable, (1) 92mm hot-swap fan and plastic housing, (1) 120mm hot-swap fan and plastic housing, 4ea HS fan wires, (1) fixed 92

				mm fan, (1) fixed 120mm fan, bezel intrusion switch, power supply filler panel, 2 sets (4) 5.25" tool-less bay rails, 2 sets (4) of fixed hard drive bay rails, and (1) IDE cable and (1) .
FXXRIGPKG	879286	00735858180610	1	Packaging spare for SC5400 chassis family.
ASLIO	877948	00735858180733	50	50 Pack: I/O Shield for S5000PSLSATA, S5000 PSLSAS, S5000XSLROMB, SC5400RA, S5000XVNSATA, S5000XVNSAS, BB5000XVNSATA, BB5000XVNSAS, BB5000PSLSATA, BB5000XSLSATA, BB5000PSLSAS and BB5000XSLROMB. (MOQ = 50)
FRIG2PDB	877879	00735858180214	1	SC5400RA/SC5400BRP/SC5400LX Power Distribution board, power supply cage, power supply filler panel.
FRIG2FIXFANS	877885	00735858180245	1	SC5400 family fixed fan spare kit. Includes one 92mm and one 120mm standalone fans (fixed fans for SC5400BASE and SC5400BRP)
FXXIPMBCBL	878135	00735858180085	10	Pack of 10 spare IPMB cables.
FXXSESCBL	877945	00735858180092	10	Pack of 10 spare SES cables used for the S5000PSL ROMB solution.
FXXSGPIOCBL	877944	00735858180108	10	Spare SGPIO cable used for ESB2 RAID to backplane communications.
FXX6DRV3GBRD	879634	00735858180924	1	Spare board for AXX6DRV3G (6 drive backplane without an expander).
FXX6DRV3GEXPBRD	879632	00735858180948	1	Spare board for AXX6DRV3GEXP (6 drive backplane with an expander).
AXXFHDDBRK	868171	00735858172462	1	SC5400/SC5300 (Base, BRP or LX) accessory bracket for hard drive.
ARIGDLTRAIL	856600	00735858164610	1	SC5400/SC5300 DLT Accessory Kit -- 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	SC5400/SC5300 bezel branding panels- (1) upper and (1) lower bezel customization panel (10 sets)
FXX10DVCARBLK	880265	00735858181938	10	Hot swap drive carrier spare with black baffle. MOQ = 10
FPWRCABLENA	879287	00735858180740	1	North America Power cable for SC5400 family of chassis. Note: This power cable is NOT the same cable as SC5300 or SC5295/5299 chassis families.

FRAMEMRISER	886618	00735858190084	1	Spare Memory Riser Board for SC5400RA system
FRACAGE	886063	00735858189842	1	Memory Cage and ducting for SC5400RA system only.
FRABBOARD	886616	00735858190091	1	Spare baseboard for SC5400RA system
FRAHEATSINK	886062	00735858189859	1	Spare heat-sink for SC5400RA system.
FRIG2HSFANS	877882	00735858180238	1	SC5400LX hot swap fan spare kit. Includes one 92mm and one 120mm hot swap fan.

Production RAID Products

Product Code	MM #	UPC	MOQ	Description
SRCSAS18E	879066	00735858178143	5	Intel® RAID Controller SRCSAS18E - PCIe x8, 8P SAS RAID Controller - Intel® 80333 IOP @ 500 MHz, 256MB DDR2 ECC DIMM
SRCSAS144E	883470	00735858182621	5	Intel® RAID controller SRCSAS144E - PCIe x4, 8P (4 int/4 ext) SAS RAID Controller - Intel® 80333 IOP @ 500 MHz, 128MB embedded memory. RoHS Compliant
AXXRAKSW5	878958	00735858181860	5	Intel® RAID Activation Key AXXRAKSW5 to enable SAS and/or SATA Software RAID 5 on S5000PSL, S5000XSL, S5000XVN and S5000VSA board families and SC5400RA Server System.
AXXRPCM2	879067	00735858178150	5	Intel® Portable Cache Module AXXRPCM2 for use with SRCSAS18E - Combines 256MB memory DIMM and battery; up to 72 hours retention
AXXRSBBU3	883471	00735858181853	5	Intelligent Battery Backup module for use with the Intel® RAID controller SRCSAS144E. Provides up to 72 hours of cache memory retention.

MOQ = Minimum Order Quantity.