

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 |

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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):
 - Front Panel Cable (baseboard header to front panel)
 - USB Cable (USB header to chassis front panel)
 - Pre-routed IDE cable
 - COM2 Cable
 - 6 SAS/SATA cables
 - 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
 - **AXX6DRV3GEXP:** Expander-based 6-drive bay that supports SAS/SATA drives. Requires two free SAS ports from a SAS RAID controller card.
 - **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 SRC SAS144E 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 |

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| | | | | cable and SGPIO cable, common installation guide, SATA/SAS configuration label. Not supported with the SRCAS144E 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. |
| AXXLCPED | 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 |

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| | | | | 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 PLSAS, S5000XSLROMB, SC5400RA, S5000XVNSATA, S5000XVNSAS, BB5000XVNSATA, BB5000XVNSAS, BB5000PSLSATA, BB5000XLSATA, 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.

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru