

**Intel® Server Board S5000PSL “Star Lake”,  
Intel Workstation board S5000XVN “Vernonia”,  
Intel® Server Chassis SC5400 “Riggins 2”,  
Intel® Entry Server Chassis SC5299-E “Pilot Point 4”**

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

A reference guide to assist customers in ordering the necessary components to configure the Intel Server Board S5000PSL and Intel Workstation Board S5000XVN with appropriate Intel chassis.

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*~ Preliminary and Subject to Change ~*



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3/1/ Rev .76: Updated CEK for 10-packs and MM#'s for Silver SAP Kits

4/11/ Rev .8: Updated Production spare data for backplanes and UPC codes

4.27/ Rev .85: Updated Silver Phase 2 SKU information

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## 1. Beta Pre-production SKU Details and Contents

This section contains information needed to order and configure the Beta Intel Server Chassis SC5400 (Riggins 2) and SC5299 (Pilot Point 4) KDK with the Intel Server Board Star Lake and Intel Workstation Board Vermonia.

- 1) The Beta pre-production Intel boards contains the following:
  - One baseboard with Common Enabling Kit (CEK) spring clips
  - ATX I/O shield and bumper
  - Cables: 4-pin power converter (necessary to connect PCI Power connections to two HDD power connectors), IDE, Serial B, 6 SAS/SATA cables for "SATA" SKUs (or 2 SATA cables and one 4-port SAS/SATA "octopus" cable for the ROMB SKU)
  - Resource CD-ROM
- 2) The Beta pre-production SC5400LX KDK includes:
  - Redundant (1+0) 830W PFC power supply with dual line cord support (full redundancy requires additional 830W module purchased separately)
  - Four redundant hot swap fans and ducting
  - Support for six tool free non hot-swap hard drives. Upgradeable to 10 hot-swap SAS or SATA.
  - Two passive heat-sinks
  - 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
    - Note: no AC power cords are included
- 3) The beta, pre-production SC5400Base KDK includes:
  - Non-redundant 670W PFC power supply
  - Two non-redundant cooling fans
  - Support for six tool free non hot-swap hard drives. Upgradeable to 6 hot-swap SAS or SATA.
  - Two passive heat-sinks
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Pre-routed IDE cables
    - COM2 Cable
    - Note: No AC power cords are included.
- 4) The beta, pre-production SC5299WS SKU (product code: KPP4WS670BPP) includes:
  - Non-redundant 670W PFC power supply
  - Two non-redundant cooling fans with ducting
  - Two active heat-sinks
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Note: No AC power cords are included

- Chassis intrusion switch assembly
- 5) The beta, pre-production SC5299DP SKU (product code: KPP4DP550BPP) includes:
- Non-redundant 550W PFC power supply
  - One non-redundant cooling fan
  - Two active heat-sinks
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Note: No AC power cords are included
  - Chassis intrusion switch assembly
- 6) The beta, pre-production SC5299BRP SKU (KPP4BRP650BPP) includes:
- Redundant (1+1) 650W PFC power supply with dual line cord support
  - One non-redundant cooling fan
  - Two active heat-sinks
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Note: No AC power cords are included
  - Chassis intrusion switch assembly
- 7) Common accessories include:
- Hot Swap Drive Bays
    - **AXX6DRV3GEXBPP**: Expander-based 6-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the integrated SAS controller, ROMB Card or SAS RAID card.
    - **AXX4DRV3GEXBPP**: Expander-based 4-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the integrated SAS controller, ROMB Card or SAS RAID card. Only supported in SC5400 chassis family.
    - **AXX6DRV3GBPP**: 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 enabled board SKU, ROMB Card or SAS RAID Card.
    - **AXX6DRV3GBPP**: 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 enabled board SKU, ROMB Card or SAS RAID Card. Only supported in SC5400 chassis family.
  - **FXX830WPSUBPP**: Additional 830W power supply module- required for full redundancy (for SC5400LX and SC5400BRP only)
  - **ARIGRACK**: Rack conversion kit (SC5400LX and SC5400 only)
- 8) Reference chassis and previous generation support: Server and Workstation board interoperability with previous generation chassis is limited due to changes between the SSI specifications and difference in power requirements. Intel does not plan to validate or support Star Lake or Vernonia in SC5300 (Riggins 1) or SC5295 (Pilot Point 3: Workstation, DP or BRP). Customers planning to re-use previous generation reference or Intel chassis should be aware of the following.
- SC5295WS requires the following modifications:
    - Front panel converter cable (D24464-001)
    - Processor power extension cable (D22617-001)

- 4-pin power cable (D25027-001)
- Active heat sinks designed for Dempsey or Woodcrest processors.
- SC5300BASE, BRP and LX will not function.

## Beta Board SKUs

Product Code	MM #	MOQ	Description
S5000XVNSATABPP	877593	1	"Vernonia SATA" workstation: Beta boxed board with Greencreek, six SATA ports and audio. Includes I/O shield, cables and reference CD.
S5000PSLSATABPP	877597	1	"Star Lake SATA" Server: Beta boxed board with Blackford and six SATA ports. Includes I/O shield, cables and reference CD.
S5000PSLSASBPP	877605	1	"Star Lake SAS" Server: Beta boxed board with Blackford and four SAS, two SATA ports. Includes I/O shield, cables and reference CD.
S5000XSLROMBBPP	877606	1	"Star Lake ROMB" Server: Beta boxed board with Greencreek, six SATA ports and 8-port SAS ROMB card. Includes I/O shield, cables and reference CD.
BSLBBSATAGCBPP	877648	10	"Star Lake SATA Greencreek" Server: Beta OEM 10-pack with Greencreek and six SATA ports.

## Beta Chassis

Product Code	MM #	MOQ	Description
SC5400BASEBPP	876327	1	Beta SC5400 Base Chassis w/670W PFC Fixed PSU, 2 chassis fans, 1 PSU fan, supports up to 6 tool-free cabled drives, upgradeable to 6 hot-swap drives (SAS/SATA) without power cord. Includes two heat sinks.
SC5400LXBPP	877226	1	Beta SC5400 LX Chassis w/830W PFC redundant PSU (2nd PSU module is required for redundancy) 4 hot-swap redundant fans, 1 PSU fan per module, supports up to 6 tool-free cabled drives, upgradeable to 10 hot-swap SAS or SATA drives, without power cord. Includes two heat sinks.
KPP4WS670BPP	876304	1	Beta SC5299WS with 670W fixed PSU, supports up to 150W workstation graphics card, 2 chassis fan, rackable (requires rack kit), supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Vernonia Server Boards. No power cord, includes two processor heat sinks.
KPP4DP550BPP	876326	1	Beta SC5299DP with 550W fixed PSU, 1 chassis fan, rackable (requires rack kit), supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Star Lake and Sapello Server Boards. No power cord, includes two heat sinks.
KPP4BRP650BPP	876324	1	Beta SC5299BRP Base Redundant Power with 2 650W redundant PSU, 1 chassis fan, rackable (requires rack kit),

			supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Star Lake and Sapello Server Boards. No power cord, includes two heat sinks.
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## Beta Spares and Accessories

Product Code	MM #	MOQ	Description
AXX6DRV3GEXPBPP	877227	1	Beta SC5400/Pilot Point 4 chassis 6-drive hot swap, expander, SATA/SAS backplane assembly. Compatible with either SAS or SATA 3.5" hard drives (requires two SAS controller ports). Includes: Board, 6ea drive carriers, 2ea Data cables, 6-drive bay, IPMB cable, common installation guide, SATA/SAS configuration label
AXX4DRV3GEXPBPP	877228	1	Beta SC5400 4-drive hot swap, expander, SATA/SAS backplane assembly. Compatible with either SAS or SATA 3.5" hard drives (requires two SAS controller ports). Includes: Board, 4ea drive carriers, 2ea Data cables, 4-drive bay, IPMB cable, common installation guide, SATA/SAS configuration label
AXX6DRV3GBPP	877229	1	Beta SC5400/Pilot Point 4 chassis 6-drive hot swap, non-expanded, SATA/SAS supported backplane assembly. Compatible with either SAS or SATA 3.5" hard drives. Includes: Board, 6ea drive carriers, 6ea Data cables, 6-drive bay, IPMB cable, SES cable and SGPIO cable, common installation guide, SATA/SAS configuration label. SAS drive support requires connection to SAS ports.
AXX4DRV3GBPP	877230	1	Beta SC5400 4-drive hot swap, non-expanded, SATA/SAS supported backplane assembly. Compatible with either SAS or SATA 3.5" hard drives. Includes: Board, 4ea drive carriers, 4 ea Data cables, 4-drive bay, IPMB cable, SES cable and SGPIO cable, common installation guide, SATA/SAS configuration label. SAS drive support requires connection to SAS ports.
FXX830WPSUBPP	877394	1	Beta 830W Redundant Power Supply Module for use in Beta versions of: SC5400BRP, SC5400LX, and SC5400RA
AXXRMMBPP	877419	1	Beta Intel Remote Management Card
AXX512FBDBPP	879200	1	Beta Fully Buffered DIMM KIT: Minimum order quantity is one kit. Each kit contains two 512MB Fully buffered DIMMS with full DIMM Heat Sink for Beta validation purposes. Quantities shipped will be limited to one kit (for Sapello) or two kits for Alcolu, Star Lake and Vernonia boards until initial demand is fulfilled.
APP3HSDBKIT	871861	1	Hot-swap adapter bracket for use with all SC5299-E and SC5295 (except SC5295UP) chassis. This accessory is required when using the 6 drive SATA/SAS or SCSI hot-swap drive bay

## 2. Silver Pre-production SKU Details and Contents

This section contains information needed to order and configure the Intel Server Chassis SC5400 and SC5299-E KDKs with the Intel Server Board families S5000PSL and S5000XVN during the silver phase.

- 1) Silver pre-production boxed Intel Server Boards contains the following:
  - One baseboard with Common Enabling Kit (CEK) spring clips
  - ATX I/O shield, bumper and label
  - Cables: 4-pin power converter, IDE, Serial B (COM2), 6 SAS/SATA cables for “SAS” or “SATA” SKUs (or 2 SAS/SATA cables and one 4-port SAS/SATA “octopus” cable for other SKUs)
  - Resource CD-ROM with utilities, drivers, documentation and technical information
- 2) The silver pre-production SC5400LX KDK includes:
  - Redundant (1+0) 830W PFC power supply with dual line cord support (full redundancy requires additional 830W module purchased separately)
  - Four redundant hot-swap fans and ducting
  - Support for six tool-free non hot-swap hard drives. Upgradeable to 10 hot-swap SAS or SATA.
  - 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
    - Note: no AC power cords are included
  - The Intel Server Chassis SC5400 is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include a passive heat sink.
- 3) The silver pre-production SC5400 Base KDK includes:
  - Non-redundant 670W PFC power supply
  - Two non-redundant cooling fans
  - Support for six tool free non hot-swap hard drives. Upgradeable to 6 hot-swap SAS or SATA.
  - Quick start guide
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Pre-routed IDE cables
    - COM2 Cable
    - Note: No AC power cords are included.
  - The Intel Server Chassis SC5400 is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include a passive heat sink.
- 4) The silver, pre-production SC5299WS SKU (KPP4WS670SPP) includes:
  - Non-redundant 670W PFC power supply
  - Two non-redundant cooling fans with ducting
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)



- No AC power cords are included
  - Chassis intrusion switch assembly
  - The chassis is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include an active heat sink.
- 5) The silver, pre-production SC5299BRP SKU (KPP4BRP650SPP) includes:
- Redundant (1+0) 650W PFC power supply with dual line cord support (full redundancy requires additional 650W module purchased separately)
  - One non-redundant cooling fan
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - No AC power cords are included
  - Chassis intrusion switch assembly
  - The chassis is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include an active heat sink.
- 6) Common accessories include:
- Hot Swap Drive Bays
    - **AXX6DRV3GEXPSPP**: Expander-based 6-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the integrated SAS controller, ROMB Card or SAS RAID card.
    - **AXX4DRV3GEXPSPP**: Expander-based 4-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the integrated SAS controller, ROMB Card or SAS RAID card. Only supported in SC5400 chassis family.
    - **AXX6DRV3GSPP**: 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 enabled board SKU, ROMB Card or SAS RAID Card.
    - **AXX6DRV3GSPP**: 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 enabled board SKU, ROMB Card or SAS RAID Card. Only supported in SC5400 chassis family.
  - **FXX830WPSUSPP**: Additional 830W power supply module- required for full redundancy (for SC5400LX and SC5400BRP only)
  - **ARIGRACK**: Rack conversion kit (SC5400LX and SC5400 only)
  - **APP3RACKIT**: Rack conversion kit (SC5299-E only)
  - **AXXRAK18ESPP**: RAID activation key for the Silver Star Lake ROMB SKU.
  - **APP4650WPSUPP**: Additional 650W power supply module- required for full redundancy (for SC5299BRP only)

## Silver Board SKUs

Product Code	MM #	MOQ	Description
S5000PSLSATASPP	877650	1	"Star Lake SATA" Server: Silver boxed board with Blackford and six SATA ports. Includes I/O shield, cables and reference CD.
S5000PSLSASSPP	877651	1	"Star Lake SAS" Server: Silver boxed board with Blackford and four SAS, two SATA ports. Includes I/O shield, cables and reference CD.
S5000PSLROMBSPP	879106	1	"Star Lake ROMB" Server: Silver boxed board with Blackford chipset, six SATA ports and 8-port SAS ROMB card. Includes I/O shield, cables and reference CD. Activation of SAS hardware RAID requires optional key AXXRAK18ESPP.
S5000XVNSATASPP	877649	1	"Vernonia SATA" workstation: Silver boxed board with Greencreek, six SATA ports and audio. Includes I/O shield, cables and reference CD.
S5000XVNSASSPP	877655	1	"Vernonia SAS" workstation: Silver boxed board with Greencreek and six SATA ports. Includes I/O shield, cables and reference CD.
BSLBBSATAGCSPP	877659	10	"Star Lake SATA Greencreek" Server: Silver OEM 10-pack with Greencreek and six SATA ports.

## Silver Chassis

Product Code	MM #	MOQ	Description
SC5400BASESPP	877411	1	Silver SC5400 Base Chassis with 670W PFC Fixed PSU, 2 fixed chassis fans, 1 PSU fan. Supports up to 6 tool-free cabled drives, upgradeable to 6 hot-swap drives (SAS or SATA). No power cord included.
<del>SC5400BRPSPP</del>	<del>877404</del>	4	Not sampled – Production chassis will be available.
SC5400LXSPP	877408	1	Silver SC5400 LX Chassis with 830W redundant PSU (optional 2nd PSU module is required for redundancy), 4 hot-swap redundant fans, 1 PSU fan per module, 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. No power cord included.
KPP4WS670SPP	878052	1	Silver SC5299WS (Pilot Point 4 WS) with 670W fixed PSU, supports up to 150W workstation graphics card, 2 chassis fans, rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Vernonia Server Boards. No power cord included.
KPP4DP650SPP	877861	4	Star Lake customers can order Production SC5299DP chassis.
KPP4BRP650SPP	877862	1	Silver SC5299BRP (Pilot Point 4 BRP) Base Redundant Power 650W (optional 2nd PSU module is required for redundancy), 1 chassis fan, rackable with optional rack kit. Supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Star Lake and Sapello Server Boards. No power cord included.

## Silver Kits

More kits are expected to be added for Silver samples. This kitting is for pre-production samples only and will not be done for production units.

Product Code	MM #	MOQ	Description
SC5400SLBASESPP	882943	1	Kit of one Intel Server Board S5000SLSATASPP (Star Lake SATA) and one Intel Server Chassis SC5400BASESPP. Components will not be integrated and will arrive in individual boxes (same as ordering separately).
SC5400SLLXSPP	882942	1	Kit of one Intel Server Board S5000SLSATASPP (Star Lake SATA) and one Intel Server Chassis SC5400LXSPP and second 830WPSU (FXX830WPSUSPP). Components will not be integrated and will arrive in individual boxes (same as ordering separately).

## Silver Accessories &amp; Spares

Product Code	MM #	MOQ	Description
AXX6DRV3GEXPSP	877231	1	Silver SC5400/Pilot Point 4 chassis 6-drive hot swap, expander, SATA/SAS backplane assembly. Requires 2 SAS ports from baseboard,

			ROMB card or RAID card and is compatible with SAS or SATA 3.5" hard drives. Includes: Board, 6 drive carriers, 2 Data cables, 6-drive bay, IPMB cable, common installation guide, SATA/SAS configuration label.
AXX4DRV3GEXPSP	877232	1	Silver SC5400 4-drive hot swap, expander, SATA/SAS backplane assembly. Requires 2 SAS ports from baseboard, ROMB card 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 SC5400BASE.
AXX6DRV3GSPP	877234	1	Silver SC5400/Pilot Point 4 chassis 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.
AXX4DRV3GSPP	877233	1	Silver SC5400 4-drive hot swap, non-expanded, SATA/SAS supported backplane assembly. 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 in SC5400BASE.
AXXRMSPP	877420	1	Silver Remote Management Module
FXX830WPSUSPP	878327	1	Silver 830W Redundant Power Supply Module for use in Silver versions of SC5400BRP and SC5400LX. Optional, second module is required to enable full, hot-swap power redundancy.
AXXCDFDBRKSP	879233	1	Silver Pre-production: SC5400 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)
AXXRAK18ESPP	879076	1	Silver Pre-production Intel® RAID Activation Key - Enables full intelligent RAID on Motherboard (ROMB) solution on Intel Server board SE5000PSLROMB with the Intel® 80333 IP @ 500MHz. Compatible with Harwich 800T, Star Lake, and Alcolu Server ROMB SKUs.
APP4650WPSUPP	879530	1	Silver 2 <sup>nd</sup> Redundant 650W PSU for Silver SC5299BRP chassis. Optional, second module is required to enable full, hot-swap power redundancy.
APP3HSDBKIT	882456	1	Hot-swap adapter bracket for use with all SC5299-E and SC5295 (except SC5295UP) chassis. This accessory is required when using the 6 drive SATA/SAS hot-swap drive bays in SC5299E or SC5295 (not required in SC5400 family).
AXXRAKSW5PP	880278	1	Intel® RAID Activation Key AXXRAKSW5PP enables SAS and/or SATA Embedded RAID 5 on Star Lake, Sapello, & Alcolu
AXXRSBBU3	880068	1	Intel® RAID Smart Battery AXXRSBBU3, for use with AXXRAK18E, battery back-up providing up to 40 Hrs cache data retention

### 3. Production SKU Details and Contents

This section contains information needed to order and configure the Intel Server Chassis SC5400 and SC5299 KDKs with the Intel Server Board families S5000PSL and S5000XVN.

- 1) Production boxed Intel Server Boards contain the following:
  - One baseboard with Common Enabling Kit (CEK) spring clips
  - ATX I/O shield, bumper and label
  - Cables: 4-pin power converter, IDE, Serial B (COM2), 6 SAS/SATA cables for “SAS” or “SATA” SKUs (or 2 SAS/SATA cables and one 4-port SAS/SATA “octopus” cable for other SKUs)
  - Resource CD-ROM with utilities, drivers, documentation and technical information
- 2) Production OEM 10-packs of Intel Server Boards contain the following:
  - One baseboard with Common Enabling Kit (CEK) spring clips
- 3) The production SC5400LX KDK includes:
  - Redundant (1+0) 830W PFC power supply with dual line cord support (full redundancy requires additional 830W module purchased separately)
  - 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.
  - 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
    - AC power cord is included only in SC5400LXNA
  - The Intel Server Chassis SC5400 is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include a passive heat sink.
- 4) The production SC5400BRP KDK includes:
  - Redundant (1+0) 830W PFC power supply with dual line cord support (full redundancy requires additional 830W module purchased separately)
  - Two non-redundant cooling fans
  - 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.
  - 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
    - AC power cord is included only in SC5400BRPNA
  - The Intel Server Chassis SC5400 is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include a passive heat sink.
- 5) The production SC5400 Base KDK includes:
  - Non-redundant 670W PFC power supply
  - Two non-redundant cooling fans
  - Support for six tool free non hot-swap hard drives. Upgradeable to 6 hot-swap SAS or SATA.

- Quick start guide
  - Cables (one each):
    - Front Panel Cable (baseboard header to front panel)
    - USB Cable (USB header to chassis front panel)
    - Pre-routed IDE cables
    - COM2 Cable
    - AC power cord is included only with SC5400BASENA.
  - The Intel Server Chassis SC5400BASE is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include a passive heat sink.
- 6) The production SC5299WS SKU includes:
- Non-redundant 670W PFC power supply
  - Two non-redundant cooling fans with ducting
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - 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 SC5299WSNA
  - Chassis intrusion switch assembly
  - The chassis is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include an active heat sink.
- 7) The production SC5299DP SKU includes:
- Non-redundant 550W PFC power supply
  - One non-redundant cooling fan
  - 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.**
  - 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 SC5299DPNA
  - Chassis intrusion switch assembly
  - The chassis is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include an active heat sink.
- 8) The production SC5299BRP SKU includes:
- Redundant (1+0) 650W PFC power supply with dual line cord support (full redundancy requires additional 650W module purchased separately)
  - One non-redundant cooling fan
  - Support for six tool-free non hot-swap hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.
  - 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 SC5299BRPNA
  - Chassis intrusion switch assembly
  - The chassis is designed to work with boxed Intel processors (code name Dempsey/Woodcrest) that include an active heat sink.

## 9) 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 integrated SAS controller, ROMB Card or SAS RAID card.
  - **AXX4DRV3GEXP**: Expander-based 4-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the integrated SAS controller, ROMB Card or SAS RAID card. Only supported in SC5400 chassis family.
  - **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 enabled board SKU, ROMB Card or SAS RAID Card.
  - **AXX6DRV3G**: 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 enabled board SKU, ROMB Card or SAS RAID Card. Only supported in SC5400 chassis family.
- **FXX830WPSU**: Additional 830W power supply module- required for full redundancy (for SC5400LX and SC5400BRP only)
- **ARIGRACK**: Rack conversion kit (SC5400BASE, SC5400BRP and SC5400LX)
- **APP3RACKIT**: Rack conversion kit (SC5299-E chassis family).
- **AXXRAK18E**: RAID activation key for the S500PSLROMB SKU that enables SAS hardware RAID.
- **APP4650WPSU**: Additional 650W power supply module- required for full redundancy for SC5299BRP only.

## Production Board SKUs

Product Code	MM #	UPC	MOQ	Description
S5000XVNSATA	881234	00735858182 836	5	"Vernonia SATA" workstation: Boxed board with Greencreek, six SATA ports and audio. Includes I/O shield, cables and reference CD.
S5000XVNSAS	881240	00735858182 843	5	"Vernonia SAS" workstation: Boxed board with Greencreek and six SATA ports. Includes I/O shield, cables and reference CD.
S5000PSLSATA	881732	00735858182 850	5	"Star Lake SATA" Server: Boxed board with Blackford and six SATA ports. Includes I/O shield, cables and reference CD.
S5000PSLSAS	881235	00735858182 867	5	"Star Lake SAS" Server: Boxed board with Blackford and four SAS, two SATA ports. Includes I/O shield, cables and reference CD.
S5000PSLROMB	881238	00735858182 874	5	"Star Lake ROMB" Server: Boxed board with Blackford, six SATA ports and 8-port SAS ROMB card (RAID activation requires optional key, Product code: AXXRAK18.) Includes I/O shield, cables and reference CD.
BB5000XVNSATA	881242	00735858182 881	10	"Vernonia SATA" workstation: Boxed board with Greencreek, six SATA ports and audio.
BB5000XVNSAS	881241	00735858182 898	10	"Vernonia SAS" workstation: Boxed board with Greencreek and six SATA ports.
BB5000PSLSATA	881232	00735858182 904	10	"Star Lake SATA" Server: Boxed board with Blackford and six SATA ports.
BB5000PSLSAS	881237	00735858182 911	10	"Star Lake SAS" Server: Boxed board with Blackford and four SAS, two SATA ports.
BB5000PSLROMB	881239	00735858182 928	5	"Star Lake ROMB" Server: Boxed board with Blackford, six SATA ports and 8-port SAS ROMB card.
BB5000XSLATA	881236	00735858182 935	10	"Star Lake SATA Greencreek" Server: OEM 10-pack with Greencreek and six SATA ports.

## Production Chassis

Product Code	MM #	UPC	MOQ	Description
SC5400BASE	877757	00735858180 139	1	SC5400 Base Chassis with 670W fixed PSU, 2 fixed chassis fans, 1 PSU fan. Supports up to 6 tool-free cabled



				drives, upgradeable to 6 hot-swap drives (SAS or SATA). No power cord included.
SC5400BASENA	881189	00735858180 153	1	Same as SC5400BASE with North American power cord included.
SC5400BRP	877804	00735858180 146	1	SC5400 Base Redundant Power (BRP) Chassis with 830W redundant PSU (optional 2nd PSU module is required for redundancy), 2 chassis fans, 1 PSU fan per module, 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. No power cord included.
SC5400BRPNA	880615	00735858180 160	1	Same as SC5400BRP with North American power cord included.
SC5400LX	877844	00735858180 177	1	SC5400 LX Chassis with 830W redundant PSU (optional 2nd PSU module is required for redundancy), 4 hot-swap redundant fans, 1 PSU fan per module, 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. No power cord included.
SC5400LXNA	880322	00735858180 184	1	Same as SC5400LX with North American power cord included.
SC5299WS	877873	00735858180 337	1	SC5299WS with 670W fixed PSU, supports up to 150W workstation graphics card, 2 chassis fans, rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Vernonia Server Boards. No power cord included.
SC5299WSNA	880891	00735858182 966	1	Same as SC5299WS with North American power cord
SC5299DP	877875	00735858180 320	1	SC5299DP with 550W fixed PSU, 1 chassis fan, 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 Star Lake (post-launch) and Sapello Server Boards. No power cord included.
SC5299DPNA	880985	00735858182 959	1	Same as SC5299DP with North American power cord
SC5299BRP	877864	00735858180 344	1	SC5299BRP Base Redundant Power 650W (optional 2nd PSU module is required for redundancy), 1 chassis fan, rackable with optional rack kit. Supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Star Lake and Sapello Server Boards. No power cord included.
SC5299BRPNA	881190	00735858182 942	1	Same as SC5299BRP 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 baseboard, 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.
AXX4DRV3GEXP	877236	00735858180290	1	SC5400 4-drive hot-swap, expander, SATA/SAS backplane assembly. Requires 2 SAS ports from baseboard, ROMB card 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 SC5400BASE.
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.
AXX4DRV3G	877238	00735858180313	1	SC5400 4-drive hot-swap, non-expanded, SATA/SAS supported backplane assembly. 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 in SC5400BASE.
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.
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) .
APP3HSDBKIT	882456	00735858177450	1	Hot-swap adapter bracket for use with all SC5299-E and SC5295 chassis. <b>This accessory is required when using the 6 drive SATA/SAS hot-swap drive bays.</b>
APP3RACKIT	882457	00735858177375	1	Rack conversion kit for SC5295/SC5299-E chassis family. Includes rack rails and hardware for rack installation

APP4650WPSU	878018	007358581803 75	1	2 <sup>nd</sup> Redundant 650W PSU for SC5299BRP chassis. Optional, second module is required to enable full, hot-swap power redundancy.
FPWRCABLENA	879287	007358581807 40	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.
FXXRIGPKG	879286	007358581806 10	1	Packaging spare for SC5400 chassis family.
AXXCDUSBFDBRK	879232	007358581806 27	1	SC5400 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)
AXXRMM	877421	TBD	1	Intel Remote Management Module for SC5000PSL server board family. Not supported in S5000XVN workstation board family.
ASLIO	877948	007358581807 33	50	50 Pack: I/O Shield and Gasket for S5000PSLSATA, S5000 PLSAS, S5000XSLROMB, SC5400RA, S5000XVNSATA, S5000XVNSAS, BB5000XVNSATA, BB5000XVNSAS, BB5000PSLSATA, BB5000XLSATA, BB5000PSLSAS and BB5000XSLROMB. (MOQ = 50)
FRIG2PDB	877879	007358581802 14	1	SC5400BRP/SC5400LX Power Distribution board, power supply cage, power supply filler panel.
FRIG2HSFANS	877882	007358581802 38	1	SC5400LX hot swap fan spare kit. Includes one 92mm and one 120mm hot swap fan.
FRIG2FIXFANS	877885	007358581802 45	1	SC5400 fixed fan spare kit. Includes one 92mm and one 120mm standalone fans (fixed fans for SC5400BASE and SC5400BRP)
FXXLPSASCBL	877903	007358581802 52	1	Spare SAS "Octopus" cable for use with SAS ROMB card included with S5000PSLROMB and BB5000PSLROMB boards.
FXX830WPSU	877872	007358581802 69	1	SC5400LX and SC5400BRP 830W Optional, redundant power supply module.
FXX670WPSU	877876	007358581802 76	1	SC5400BASE and SC5299WS 670W Power Supply Spare.
APP3STDBEZEL	871862	007358581774 74	1	Spare bezel with door for SC5295DP/WS/BRP & SC5299-E chassis.

FPP4550WPSU	878012	007358581803 51	1	Spare 550W PSU for SC5299DP chassis
FPP4BRPCAGE	878014	007358581803 68	1	Spare SC5299BRP redundant power supply cage. Also used to upgrade SC5299DP/WS to redundant power configuration. Requires 1 (or 2) APP4650WPSU to complete upgrade. Includes power distribution board and filler (for empty module when only 1 module installed). See Technical Product Specifications for instructions.
FPP4FANKIT4W	877984	007358581804 05	1	SC5299-E 4 wire fan kit. Includes (1) 92mm for SC5299WS & (1) 120mm fan for SC5299-E
FPP4PMKIT	878019	007358581803 82	1	SCSC5299-E Preventive maintenance kit includes –  (2) Plastic slides from Fixed drive bay, (1) CPU Duct, (1) Intrusion Switch Assembly, (1) USB Cable, (1) Plastic fan bracket, (1) Front Panel board (new for PP4), (1) Front panel cable (24 pin for PP4), (1) Front Panel Board (New for PP4), (1) Power supply adapter Plate (For fixed PS), (1) Power supply tool-less PS lock, (4) chassis feet, (1) Memory PP4 duct, (1) 120MM Fan (4-wire PP4 new fan), (1) 92MM Fan (4-wire), (1) Fixed HDD Fan Plate, (1) 92MM plastic Fan Bracket
FXXPP4FPBRD	877393	007358581803 99	1	Spare front panel for SC5299-E chassis.
ASLPWRCABLE	882601	007358581829 73	10	Converter cable to connect hard drive power connectors to the 2x2 pin S5000PSL and S5000XVN connectors. Required for reference chassis that do not provide 2x2 connectors standard. MOQ = 10.
FXXIPMBCBL	878135	00735858180 085	10	Pack of 10 spare IPMB cables.
FXXSESCBL	877945	00735858180 092	10	Pack of 10 spare SES cables used for the S5000PSL ROMB solution.
FXXSGPIOCBL	877944	00735858180 108	10	Spare SGPIO cable used for ESB2 RAID to backplane communications.
FXX4DRV3GBRD	879635	007358581809 17	1	Spare board for AX44DRV3G (4 drive backplane without an expander).
FXX4DRV3GEXPBRD	879633	007358581809 31	1	Spare board for AX44DRV3GEXP (4 drive backplane with an expander).
FXX6DRV3GBRD	879634	007358581809 24	1	Spare board for AX66DRV3G (6 drive backplane without an expander).

FXX6DRV3GEXPBRD	879632	007358581809 48	1	Spare board for AXX6DRV3GEXP (6 drive backplane with an expander).
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## Existing Chassis Production Spares &amp; Accessories

Product Code	MM #	UPC	MOQ	Description
AXXLCPED	879579	0073585816795 6	1	Intel® Local Control Panel (LCD) for SC5400/SC5300 pedestal chassis. Fits in unused 5.25" peripheral bay.
ARIGRACK	880511	0073585816460 3	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	0073585816849 6	1	SC5400/SC5300 optional unpainted removable side (top) cover. Can be used in rack conversion mode if unpainted top cover is desired.
AXXCMA3U7U	862119	0073585816853 3	1	Universal 3U though 7U Rack Mode Cable Management Arm (CMA). Requires ARIGRACK.
AXX4FIXDB	857882	0073585816470 2	1	SC5400/SC5300 cabled 4 drive tool-less drive bay assembly. Includes hardware to mount 4 additional non-hot swap drives (for total of up to 10).
AXXFHDDBRK	868171	007358581724 62	1	SC5400/SC5300 (Base, BRP or LX) accessory bracket for hard drive.
ARIGDLTRAIL	856600	0073585816461 0	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	0073585816848 9	10	SC5400/SC5300 bezel branding panels- (1) upper and (1) lower bezel customization panel (10 sets)
FXX10DVCARBLK	880265	0073585818193 8	10	Hot swap drive carrier spare with black baffle. MOQ = 10
PWRCABLEUS	816324	0073585816288 3	1	Spare North American power cable.
AXXSCD	880562	0073585816927 1	1	Slim line CD for use with SC5400 adapter AXXCDUSBFDBRK.
AXXUSBFLOPPY	881267	0073585818326 0	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	857593	0073585816496 2	1	DVD/CDR slim line drive for SC5300. Supports DVD/CD and CD write. Works with SC5400 adapter AXXCDUSBFDBRK.
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## Production RAID Products

Product Code	MM #	UPC	MOQ	Description
AXXRAK18E	877661	00735858180443	5	Intel® RAID Activation Key - Enables full intelligent RAID on Motherboard (ROMB) solution on selected Intel Server boards engineered around the Intel® 80333 IP @ 500MHz. For use with the S5000SLROMB and BB5000PSLROMB SKUs. Not supported in S5000PSLSAS, S5000PSLSATA, S5000XVNSATA or S5000XVNSAS.
SRCSAS18E	874656	00735858178143	5	Intel® RAID Controller SRCSAS18E (Parowan) - PCIe x8, 8P SAS RAID Controller - Intel® 80333 IOP @ 500 MHz, 256MB DDR2 ECC DIMM
FXXSROMBSAS18E	878959	00735858180450	1	Spare ROMB Card for S5000SLROMB SKU only. Not supported in S5000PSLSAS, S5000PSLSATA, S5000XVNSATA or S5000XVNSAS.
AXXRAKSW5	878958	00735858181860	5	Intel® RAID Activation Key AXXRAKSW5 to enable SAS and/or SATA Software RAID 5 on Star Lake, Sapello, & Alcolu
AXXRPCM2	874800	00735858178150	1	Intel® Portable Cache Module AXXRPCM2 for use with SRCSAS18E - Combines 256MB memory DIMM and battery; up to 72 hours retention
AXXRSBBU3	880067	00735858181853	1	Intelligent Battery Backup module for use with the S5000SLROMB SKUs. Provides up to 72 hours of cache memory retention.

MOQ = Minimum Order Quantity.