Intel® Server Board S5520UR

Intel® Server System SR1600UR

Intel® Server System SR1600URHS

Intel® Server System SR1625UR

Intel® Server System SR1625URSAS

Intel® Server System SR2600URBRP

Intel® Server System SR2600URLX

Intel® Server System SR2625URBRP

Intel® Server System SR2625URLX

Spares/Accessories List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server BoardS5520UR and the appropriate 1U and 2U Intel Rack Mount Server Systems

Revision 1.0

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Enterprise Platforms and Services Marketing

Revision History

April '08- Rev 0.1 – Initial release for alpha

May '08 – Rev 0.2 – Updated for beta board and systems

July '08 – Rev 0.3 – Updated beta configuration guide

August '08 – Rev 0.5 – Updated for silver board and systems

October `08 – Rev 0.6 – Silver corrections

November `08 – Rev 0.9 – Updated for production board and systems

February `09 - Rev 1.0 – Ready for open books

Table of Contents:

1.   System Product Order Codes

1.1   Product Descriptions – Overview

Product based on the Intel® Server Board S5520UR will be offered in two methods at production:

1. **Intel® Server Systems (Integrated SKUs)**. Customer orders an integrated system. All systems – except SR1600URHS – do not have required options, and are complete.

   All systems do not include processors, DDR3 main memory, hard drives, and other customer configuration items

2. **10 Pack Server Board SS5520UR**. Intended for customers utilizing 3rd party chassis or for customers requiring spare boards.

* Chassis will not be offered separately.

1.2   Board and System Product Order Codes

Not included in systems: Processors, DDR3 main memory, hard drives, and other customer configuration items are not included in below SKUs.

Image	Product Code MM UPC	Description	Minimum Order Quantity
	BB5520UR 901085 735858206587	Intel Server Board S5520UR (shipped in bulk pack of 10)	10
	SR1600UR 900983 735858206723	**Intel Server System SR1600UR fixed configuration. Includes:** • Intel Server Board S5520UR • Intel Server Chassis SR1600 • Cabled front panel (no video port • Three 3.5" fixed HDD sleds, • One full height riser with PCI Express x16 2.0 slot • One fixed high-efficient 600W power supply • Fan-board • SATA and power cables to connect 3 HDDs, • Seven DIMM blanks • Two processor heatsinks. For complete list of accessories – please reference section 2.	1

	SR1600URNA 900985 NA	Same as SR1600UR but with North American power cord.	1

	SR1600URHS
	900985
	735858206730
		Intel Server System SR1600URHS Hot-Swap configuration. Includes:
		• Intel Server Board S5520UR
		• Intel Server Chassis SR1600
		• Standard control panel,
		• Three 3.5" HDD carriers,
		• One full height riser with PCI Express 2.0 x16 slot,
		• One fixed high-efficient 600W power supply
		• Seven DIMM blanks
		• Two processor heatsinks.
		Does not include backplane.
		*NOTE: System Backplane must be ordered separately to complete system.
		
		Required accessory (choose one of two options):
		  To obtain SAS/SATA HotSwap functionality – need to order Active Backplane – ASR1500SASBP (offers onboard SAS controller with SW RAID support).
		  To obtain SATA HotSwap functionality – need to order ASR1500PASBP, which allows cabled pass-through connection from motherboard or add-in controller.
		
		For complete list of accessories – please reference section 2.
			1

	SR1600URHSNA 901126 NA	Same as SRURHS but with North American power cord.	1
	SR1625UR 900986 735858206747	**Intel Server System SR1625UR passive configuration. Includes:** • Intel Server Board S5520UR • Intel Server Chassis SR1625 • mini control panel, • 6 of 2.5" HDD carriers (and filler in slots 7&8) • 1 full height full length riser with PCI Express 2.0 x16 slot, • 1 passive SAS/SATA midplane, • 7 DIMM blanks • 2 processor heatsinks • 1 hot-swap and redundant capable high-efficient 650W power supply. **Key Optional accessories:** To enable redundant power supply feature – order additional power supply ASR1625PS To add SW Raid5 support – order AXXRAKSW5 key. To add HW raid functionality: need to install add-in PCI HW Raid controller, which must be cabled to Passive Midplane.	1

		Alternatively, Passive Midplane may be replaced with Active (FALSASMP2)	
		To add support for 8 drives by add-in controller – order additional 2.5" HDD drive carriers (available in 10 pack FXX25HDDCAR).	6
		To add Standard Control Panel - order ASR1625FP.	
		*Note: Only one control panel (Mini, Standard, or Local) can be used in a system at a time.	
		*Note: Standard CP and two additional drives are installed in the same bay, and can not be installed at the same time.	
		For complete list of accessories – please reference section 2.	
	SR1625URNA 901132 NA	Same as above but with North American power cord	1
	SR1625URSAS 900987 735858206754	**Intel Server System SR1625UR active configuration. Includes:** • Intel Server Board S5520UR • Intel Server Chassis SR1625 • Mini control panel, • 6 2.5" HDD carriers (and filler in slots 7&8) • 1 full height full length riser with PCI Express 2.0 x16 slot, • Active Midplane2 board with 8-port SAS controller upgradeable to HW RAID mode, • 7 DIMM blanks • 2 processor heatsinks • 1 hot-swap and redundant capable high-efficient 650W power supply **Key Optional Accessories:** To enable redundant power supply feature – order additional power supply (ASR1625PS) To add HW raid functionality of Active Midplane2: order Raid key (AXXRAKSAS2) , minidimm (AXXMINIDIMM512). RAID cache battery backup is optional (AXXRSBBU3). To add support for 8 drives by SAS controller on Active Midplane2– order two additional 2.5" HDD drive carriers (FXX25HDDCAR). To add Standard Control Panel - order ASR1625FP. ***Note:** Only one control panel (Mini or Standard) can be used in a system at a time. ***Note:** Standard CP and the two right most drives are installed in the same bay, and can not be installed at the same time. For complete list of accessories – please reference section 2.	1
	SR1625URSASNA 901136 NA	Same as above but with North American power cord	

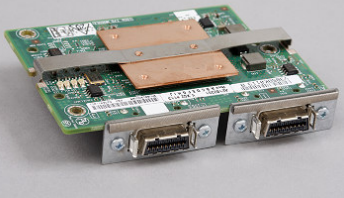| | SR2600URBRP
901093
735858206761 | **Intel Server System SR2600UR system in base-passive configuration. Includes:**
• Intel Server Board S5520UR
• Intel Server Chassis SR2600
• Standard control panel,
• 5 3.5" HDD carriers,
• 3 fixed, non redundant fans
• Tape drive bay filler
• 1 riser with three full-height PCI Express 2.0 x8 wired slots (one x16 and two x8 connectors),
• passive SAS/SATA midplane,
• 7 DIMM blanks
• 2 processor heatsinks
• 1 hot-swap and redundant capable high-efficient 750W power supply

KeyOptional accessories:
To enable power supply redundancy – order AXX750WPS
To upgrade cooling system to redundant– order ASR2600LXFANS.
To add support for 6th hot-swap 3.5 inch drive – order ASR2500SIXDRV
To change PCI expansion slots – included riser must be replaced with ASR26XXFHLPR or ASR26XXFHXR
To add support for SATA Tape Drive – order ASR2500SATAPE
*NOTE: ASR2500SIXDRV and ASR2500SATAPE are installed in the same bay and can not be installed at the same time.

For complete list of accessories – please reference section 2. | 1 |
| | SR2600URBRPNA
901187
NA | Same as above but with North American power cord | 1 |
| | SR2600URLX
900988
735858206778 | **Intel Server System SR2600UR in active-SAS configuration. Includes:**
• Intel Server Board S5520UR
• Intel Server Chassis SR2600
• Standard control panel,
• 5 3.5" HDD carriers,
• 6 redundant and hotswap fans
• Tape drive bay filler
• 1 active butterfly riser with five PCI Express 2.0 x8 wired slots (two full-height x16 connectors, one full-height x8 connector and two low-profile x8 connectors),
• active Midplane2 board with SAS controller upgradeable to HW RAID mode,
• 7 DIMM blanks
• 2 processor heatsinks
• 1 hot-swap and redundant capable high-efficient 750W power supply

Key Optional Accessories: | 1 |

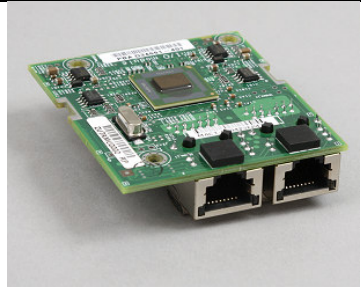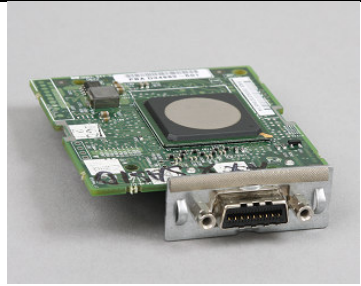|		To enable power supply redundancy – order AXX750WPS	
		To add PCI-X support – included riser must be replaced with ASR26XXFHXR	
		To add support for two fixed 2.5inch SATA drives – order ASR2600FXDRV (requires drives to be cabled to two open SATA ports)	
		To add support for 6th hot-swap 3.5 inch drive – order ASR2500SIXDRV	
		To add support for SATA Tape Drive – order ASR2500SATAPE	
		*NOTE: ASR2500SIXDRV and ASR2500SATAPE are installed in the same bay and can not be installed at the same time.	
		For complete list of accessories – please reference section 2.	
	SR2600URLXNA 901131 NA	Same as above but with North American power cord	1
	SR2625URBRP 900989 735858206785	**Intel Server System SR2625UR in base-passive configuration. Includes:** - Intel Server Board S5520UR - Intel Server Chassis SR2625 - Standard control panel 6 2.5" HDD carriers (and filler in slots 7&8) 3 fixed, non redundant fans - Tape drive bay filler 1 full-height riser with three PCI Express 2.0 x8 wired slots (one x16 connector and two x8 connectors), 1 passive SAS/SATA midplane, 7 DIMM blanks 2 processor heatsinks 1 hot-swap and redundant capable high-efficient 750W power supply **Key Optional Accessories:** To enable power supply redundancy – order AXX750WPS To add or change PCI expansion slots – included riser must be replaced with ASR26XXFHLPR or ASR26XXFHXR To add support for SATA Tape Drive – order ASR2500SATAPE For complete list of accessories – please reference section 2.	1
	SR2625URBRPNA 901141 NA	Same as above but with North American power cord	1
	SR2625URLX 900990 735858206792	**Intel Server System SR2625UR system in SAS configuration. Includes:** - Intel Server Board S5520UR - Intel Server Chassis SR2625 - Standard control panel, 8 2.5" HDD carriers, 6 redundant and hot-swap fans - Tape drive bay filler 1 active butterfly riser with five PCI Express 2.0 x8	1

		wired slots (two full-height x16 connectors, one full-height x8 connector and two low-profile x8 connectors),	9
		• active Midplane2 board with SAS controller upgradeable to HW RAID mode,	
		• 7 DIMM blanks	
		• 2 processor heatsinks	
		• 1 hot-swap and redundant capable high-efficient 750W power supply	
		Key Optional Accessories:	
		To enable power supply redundancy – order AXX750WPS	
		To add PCI-X support – included riser must be replaced with ASR26XXFHXR	
		To add support for SATA Tape Drive – order ASR2500SATAPE	
		For complete list of accessories – please reference section 2.	
	SR2625URLXNA 901129 NA	Same as above but with North American power cord	1

2. Spares and Accessories Order Codes

2.1 I/O Modules

Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXX10GBIOMOD Avail. Post SRA.	10GbE I/O module Dual port CX4 connector.	1
	AXX4GBIOMOD2 901359 735858206532	Quad port GbE I/O module. RJ-45 connectors.	1
	AXXIBQDRMOD Avail. Post SRA.	Single port QDR speed InfiniBand I/O Module. CX4 powered connector.	1
	AXX4SASMOD 900946 00735858206372	Internal 4-port SAS module, based on LSI 1064e controller, with Em bedded RAID support. (primarily targeted at non-intel chassis)	1
	AXXROMBSASMR 901641 735858208017	Internal 4-port SAS module, based on LSI 1078e controller. Provides 4 port full featured SAS/SATA RAID 0,1,5, 6 and striping capability for spans 10, 50, 60. (primarily targeted at non-intel chassis)	1
	AXXIBIOMOD 881891 735858185219	InfiniBand I/O Expansion Module, SDR speed. Compatible with Intel Server Boards S5000PALR and S5520UR.	1

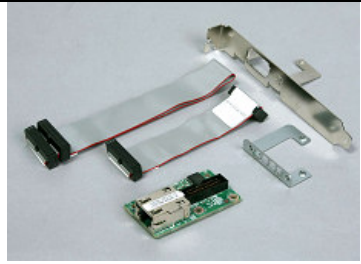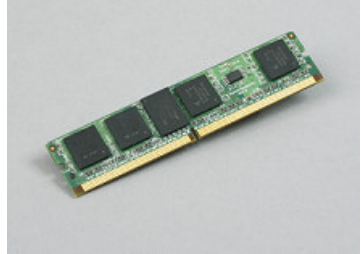| Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXXGBIOMOD 880518 735858184779	Dual Port Gigabit Ethernet I/O Expansion Module. Compatible with Intel Server Boards S5000PALR and S5520UR	1
	AXXSASIOMOD 880517 735858184786	External 4 port SAS I/O Expansion Module. Compatible with Intel Server Boards S5000PALR and S5520UR	1

2.2   SR2600/SR2625 Flex Bay Kits

Image	Product Code MM UPC	Description	Minimum Order Quantity
	ASR2500SATAPE 881260 735858184069	SATA Tape Drive Mounting Kit (also compatible with SR2500 system)	1
	ASR2500SIXDRV 902045	6th SAS/SATA HDD Kit (also compatible with SR2500 system, updated with filler panel)	1

2.3   Bezels
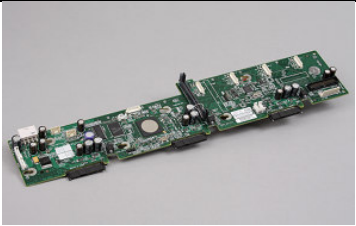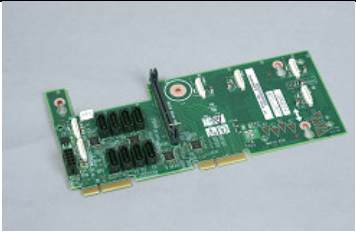
Image	Product Code MM UPC	Description	Minimum Order Quantity
	ADWBEZBLACK 865064 00735858169110	SR1600/1500/1400 Black Bezel for standard control panel.	1
	ADRBEZBLACK 857675 00735858165129	SR2600/2625/2500 Black Bezel for standard control panel.	1

11

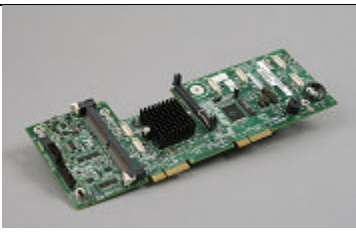|	ASR1550MINBEZ 879211 00735858183895	SR1625/1550 Black Bezel for use with Mini Control Panel.	1
* ADRBEZBLACK shown.	ADWLCDBEZEL 882435 00735858164993	SR1600/1400/1500 Black Bezel with cutout for Intel Local Control Panel (LCD). Note: requires Intel Local Control Panel.	1
	ADRLCDBEZEL 857586 00735858165082	SR2600/2625/2500/2400 Black Bezel with cutout for Intel Local Control Panel (LCD). Note: requires Intel Local Control Panel.	1
	ASR1550LCDBEZ 879209 00735858183901	SR1625/1550 Black Bezel for use with Local Control Panel. Note: requires Intel Local Control Panel.	1
	ASR1550BEZ 879406 00735858183888	SR1625/1550 Black Bezel for use with Standard control panel. Note: requires Standard Control Panel.	1

2.4   System Spares and Accessories
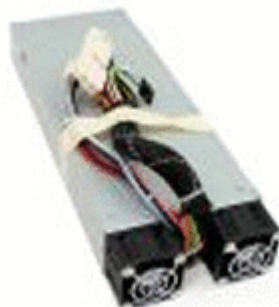
Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXXRMM3 900961 735858206570	Remote management module 3 kit (includes module, standard and Intel chassis specific mounting brackets, long and short cables)	1
	AXXRAKSAS2 891290 735858194730	Intel® RAID Activation Key for FALSASMP2 Note: enabling RAID capability also requires mini DIMM (AXXMINIDIMM512) (Reused from SR1500/SR2500 system)	1
	AXXRAKSW5 878958 00735858181860	Intel® RAID Activation Key AXXRAKSW5 enables SATA Host-based RAID 5	5
	AXXMINIDIMM512 897046 735858202015	512 MB Mini DIMM registered DDR-2 for use with FALSASMP2	1

12

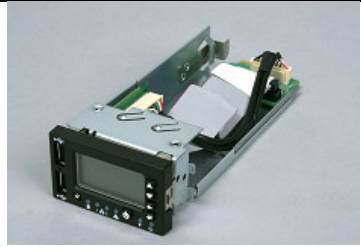|	AXXRSBBU3 900954 735858181853	Intel® RAID Smart Battery Backup module for use with Intel® Integrated Server RAID	1
	AXXRJ45DB9 881944 735858155212	RJ45 To DB9 Cable (Also compatible with SR1500/2500 system)	1
	AXXSATADVDROM 893637 735858197663	Slimline SATA DVDROM Device	1
	AXXSATADVDRWROM 898051 735858197670	Slim SATA DVD+/-RW ROM Accessory	1
	AXXUSBFLOPPY 881267 735858183260	SR1600/2600 USB Floppy Device Accessory (not compatible with SR1625/2625))	1
	FPWRCABLENA 879287 735858181129	North American Power Cord Spare	1
	ASR1500PASBP 902485 735858183758	SR1600/SR1500 (1U) Hotswap Passive SAS/SATA Backplane Kit. Compatible with either SAS or SATA 3.5" hard drives. Kit contents include the following: Hot swap backplane with pass-through capabilities for either onboard SATA ports or a SAS/SATA add-in card, Enclosure management cable, 3 SAS/SATA cables (pre-kitted and length matched to the SATA ports on the server board)	1

13

	ASR1500SASBP 880524 735858183741	SR1600/SR1500 (1U) Hotswap SAS Backplane Kit. Compatible with either SAS or SATA 3.5" hard drives. Kit includes: Backplane with SAS controller, USB cable (to front panel).	1
	FSR2600LXFAN 901087 735858206679	SR2600/2625UR LX hot swap redundant fan spare kit. Contains 3 fans (1 x 60mm, 2 x 80mm). Notes: Not compatible with BRP SKU fans.	1
	ASR2600LXFANS 901087 735858206464	SR2600BRP/SR2625BRP Redundant fan upgrade kit. Contains 6 fans, fan structure, cable set.	1
	FXX1UFAN 881101 735858184243	SR1600/SR1625/SR1500/SR1550 Fan spare kit. Contains one 56mm fan with short cable, and one 56mm fan with long cable.	1
	FURBRIDGE 901088 735858206709	Bridge Board Spare	1
	FALSASMP2 892611 735858198110	SR1625/2600/2625UR SAS Midplane-2 with optional Intel® Integrated Server RAID (support RAID 6). 8 port SAS controller with optional HW RAID upgrade. Note RAID requires new RAID activation key (MM# 891290) and new RAID mini DIMM (cache) each sold separately (MM# 897046).	1
	FALPASMP 880520 00735858183826	SR1625/2600/2625UR Passive Midplane Compatible with either SAS or SATA hard drives. Kit contents include the following: Passive mid-plane with pass-through capabilities for either onboard SATA ports or a SAS/SATA add-in card,	1

14

Image	Product Code MM UPC	Description	Minimum Order Quantity
		Enclosure management cable, Note: SATA drive cables are not included.	
	FXX10DVCARBLK 880265 735858181938	3.5" Hot Swap HDD Carrier Spare (compatible with prior generations)	10
	FXX25HDDCAR 881671 735858183932	SR1625/2625UR 2.5" HDD carrier spare kit	10
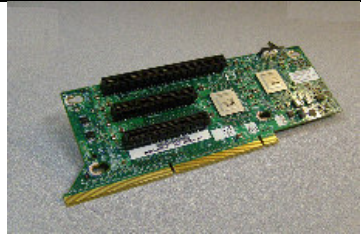
2.5 Power Sub-system Spares and Accessories

Image	Product Code MM UPC	Description	Minimum Order Quantity
	ASR1625PS 901016 735858206433	SR1625UR 650W Hot-Swap power supply module	1
	AXX750WPS 901681 735858206501	SR2600/2625UR 750W Hot-Swap Power Supply Module	1
	FSR1600PS 901086 735858206617	SR1600UR 600W fixed power supply spare module	1

2.6   Control Panel Spares and Accessories

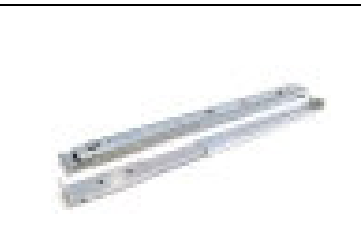| Image	Product Code MM UPC	Description	Minimum Order Quantity
	ASR2600LCP 901014 735858206457	SR2600 LCP Accessory Kit	1
	AXLCPRACK2 901015 735858206518	SR1600 and SR2625 LCP Accy Kit	1
	ASR1625FP 900991 735858206419	SR1625UR Standard front panel accessory kit	1

2.7   Riser Spares and Accessories
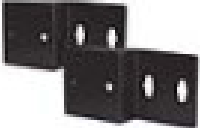
Image	Product Code MM UPC	Description	Minimum Order Quantity
	ASR26XXFHLPR 901077 735858206471	SR2600/2625 5 slot PCI-e active Riser. Provides: 1 full-size x16 physical x8 electrical slots 2 full-size x8 physical x8 electrical slot 2 low-profile x8 physical x8 electrical slots.	5
	ASR26XXFHR 901079 735858206488	SR2600/2625 3 slot passive PCI-e Riser. Provides: 1 full-size x16 physical x8 electrical slot 2 full-size x8 physical x8 electrical slots	5

Image	Product Code MM UPC	Description	Minimum Order Quantity
	ASR26XXFHXR 901080 735858206495	SR2600/2625 5 slot PCI-e / PCI-X active riser. Provides: 2 Full-size PCI-X 133 slots 1 full-size x8 physical x8 electrical slot 2 low-profile x8 physical x8 electrical slots	5
	ASR26XXFH3XR 902279 735858208437 Available post SRA.	SR2600/2625 3 slot PCI-X riser assembly.	1
	FSR16XXRISER 901186 735858206648	SR1600/1625 1 slot PCI-e passive riser. Provides: 1 full-size x16 physical x16 electrical slot.	10

2.8 Rails and Mounting Options

Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXXHERAIL2 901082 735858206549	Full extending Rail Kit, also compatible with SR1500/2500 chassis (new and improved design replacing AXXHERAIL. Existing AXXHERAIL may still be used with 16xx/26xx chassis)	1
	AXXRACKARM2 901084 735858206563	Cable Management Arm (Must be used with AXXHERAIL2, not compatible with AXXHERAIL)	1
	AXXBASRAIL13 899080 735858194969	Basic rail kit. Does not support Cable Management Arm.	1

Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXXBRACKETS 863262 735858168618	Fixed Mount Brackets. Set of brackets to hard mount chassis to rack. Supports 4 post mounting and 2 post center mounting. (Reused from SR1500/SR2500 system)	1

2.9 Chassis and Electrical Spares Kits

Image	Product Code MM UPC	Description	Minimum Order Quantity
	FSRTCHSPR 901994 735858208086	Combined chassis mechanical spare kit for SR16xx and SR26xx systems. Includes: • Baffle for power supply-backplane area for SR2600 • Baffle for power supply-backplane area for SR2625 • 1U and 2U CPU Ducts • PS Blank Filler • RMM3 Filler Panel • IO Module Filler Panel • Hard Drive Carriers (3.5" & 2.5") • SR26XX Non-redundant Fan Structure • Tape Drive Filler • CD tray w/Standoffs • Plastic Optical Drive guide + 2 screws • Optical Drive Filler Panel (3.5") • Die cast metal rack handles (set) • Seven Dimm Blanks • Misc Hardware (screws, thumbscrews, etc) • Processor Fan Bracket • SR1615 PS Air Baffle (/w Thumbscrew) • CD Tray w/o Standoffs • SR 1600 PS baffle	1
	FSR1600EESPR 901005 735858206600	SR1600 Electrical spare kit. Includes: • Bridge Board • HS SKU Front panel board • Fixed SKU front panel board • Fan distribution board • 1U riser (FSR16XXRISER) • HS SKU50 pin front panel cable • HS SKU USB front panel cable • Fixed SKU front panel cable • Fixed SKU USB front panel cable • 2 SATA cabled for fixed HDDs • Fixed SKU fan control cable • Two backplane thumb skrews • One 56mm non-redundant fan	1

18

	FSR1625EESPR 901007 735858206631	SR1625 Electrical spare kit. Includes • Bridge Board • 2.5" HSBP • Mini front panel board • 1U PCIe riser (FSR16XXRISER) • Front panel cable • USB front panel cable • I2C cable • SATA cable harness (6 cables) • One 56mm fan with short cable • One 56mm fan with long cable • Power distribution board	1

	FSR26XXEESPR
	901995
	735858208093
		SR2600 and SR2625 Electrical Spare Kit.
		Includes following system components:
		• Bridge Board
		• 2.5" HSBP for SR2625
		• 3.5: HSBP for SR2600
		• Docking front panel board (for SR2600)
		• Cabled front panel board (for SR2625)
		• Optical drive interposer
		• Front panel cable
		• Front panel USB cable
		• Two 115mm+130mm redundant fan
		     bracket cable assembly
		• One 140mm+140mm redundant fan
		     bracket cable assembly
		• SATA I2C cable
		• SATA cables harness
		• One 80mm non-redundant fan
		• One 80mm redundant fan
		• One 60mm non-redundant fan
		• One 60mm redundant fan.
		• Power distribution module.
			1