

# Intel® Server Board SE7520JR2 Intel® Server Chassis SR1450 Spares/Parts List and Configuration Guide

**A reference guide to assist customers in ordering the necessary components to configure the Intel Server Board SE7520JR2 with the Intel Server Chassis SR1450**



**Rev 1.3**

**June, 2006**

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## Revision History

April 2005- Initial Public Release.

September 2005 – rev 1.1 updated OEM board MM#'s due to ECO changes, Added SATA OEM board SKU, added config chart summary to appendix.

October 2005 – rev 1.2, added new MM#'s due to PCN #105444. Updated supported processor information.

June 2006 – rev 1.3, updated MM#'s due to RoHS. Added new SKUs [AXXDVDROM](#) and [AXXBASICRAIL](#). Updated order information on [AXXHERAIL](#) and [APLCARM](#) (see table below for summary).

### Rack Rails and Cable Management Arm Compatibility Matrix:

Chassis	Option #	Rail - Product Code / MM#	CMA - Product Code / MM#
SR1450	1	<a href="#">AXXHERAIL / 856370 (or 881328)</a>	APLCARM / 869370
SR1450	2	<a href="#">AXXHERAIL / 881328</a>	<a href="#">AXXRACKCARM / 881329</a>
SR1450	3	<a href="#">AXXBASICRAIL / 881096</a>	Not Applicable

Items in [blue](#) are new.

## Production SR1450 Chassis SKUs

### The production SR1450 chassis features:

- KDK SKU contents: chassis, one 520W PSU, PDB, system fans, low profile PCI-X riser, PSU duct, Processor duct, CD and Floppy trays, cables (front panel, fan, & USB), documentation.
- Required accessory #1: Full height PCI-X riser or Full height PCI-Express\* riser (note: these are shared parts re-used from SR1400)
- Required accessory #2: SCSI Hotswap backplane or SATA Hotswap backplane kit
- Required accessory #3: standard front panel or Intel Local Control Panel (LCP). Note: The LCP requires either Intel Server Management Professional or Advanced Module.
- Required accessory #4: slide rail kit or rack mount brackets
- Optional accessories: Second PS module (for redundancy), Intel Server Management Module, cable management arm, bezel (no LCD), bezel (LCD with cutout), slimline drive (CD, DVD, DVD/CDR, floppy), hard drive to slimline floppy conversion kit, & ATA flash drive power cable.

Product Code	MM#	UPC	Description
SR1450	869194 <a href="#">881753</a>	7 35858 17411 4	SR1450 chassis KDK- Contains chassis, fans, one power supply, ducting, cables, CD and floppy slimline trays, and low profile riser. <u>Note:</u> Requires additional backplane, full height riser, and front panel/local control panel options. No power cord. <a href="#">MM# 881753 is RoHS Compliant.</a>

SR1450NA	869608 <a href="#">881756</a>	7 35858 17412 1	SR1450 chassis KDK- Contains chassis, fans, one power supply, ducting, cables, CD and floppy slimline trays, and low profile riser. <u>Note:</u> Requires additional backplane, full height riser, and front panel/local control panel options. Includes North American power cord. <a href="#">MM# 881756 is RoHS Compliant.</a>
A1450SATAKIT	869353 <a href="#">881754</a>	7 35858 17414 5	SR1450 SATA Backplane Kit- SATA/SAS Hot swap BP board, cables (3 SATA, floppy, front panel, IDE, and I <sup>2</sup> C), 3 HDD carriers, CDROM and floppy interposer boards. <u>Note:</u> either this SKU or A1450SCSIKIT is required for system operation. <a href="#">MM# 881754 is RoHS Compliant.</a>
A1450SCSIKIT	869354 <a href="#">881837</a>	7 35858 17415 2	SR1450 SCSI Backplane Kit - SCSI Hot swap BP board, cables (non terminated SCSI, floppy, front panel, IDE, and I <sup>2</sup> C), 3 HDD carriers, CDROM and floppy interposer boards. <u>Note:</u> either this SKU or A1450SATAKIT is required for system operation. <a href="#">MM# 881837 is RoHS Compliant.</a>
APLFP	869358	7 35858 17418 3	SR1450 Front Panel Kit- Front panel board and sheet metal mounting assembly. <u>Note:</u> either this SKU or APLLCP is required for system operation.
APLLCP	869356 <a href="#">879581</a>	7 35858 17417 6	SR1450 LCP Kit -Local Control Panel assembly, sheet metal mounting carrier and install guide. <u>Note:</u> either this SKU or APLFP is required for system operation. This option replaces the Standard Front Panel and requires Intel Server Management Professional or Advanced Module. <a href="#">MM# 879581 is RoHS Compliant.</a>
APL520WPS	869200 <a href="#">881759</a>	7 35858 17425 1	SR1450 520W Power Supply Module. Required for redundant power. AC power cord not included. <a href="#">MM# 881759 is RoHS Compliant.</a>
APLFAN	869355	7 35858 17416 9	SR1450 Fan spare kit- one 56mm fan and one 28mm fan with spare fan guards.
APLCARM	869370	7 35858 17401 5	Optional SR1450 Cable management arm- to manage external cables in a rack. Requires AXHERAIL. <u>Note:</u> this is a unique SKU for SR1450. <a href="#">Note:</a> in Q3'06 this SKU will be discontinued and replaced by the following SKU: AXRACKCARM MM# 881329. This cable management arm (MM# 881329) requires AXHERAIL MM# 881328 for compatibility with SR1450.
APLHDDCAR	869379	7 35858 17427 5	HDD carriers- new carrier required for SR1450. Backwards compatible with other systems. Ten pack.
APLLCDBEZEL	869369	7 35858 17423 7	SR1450 LCP System Bezel- Optional Cosmetic outer bezel with cutout for Intel Local Control Panel (LCP). For use with APLLCP. Comes with bezel, LCP sub-bezel and lock with keys.
APLBEZBLACK	869367	7 35858 17421 3	SR1450 Front Panel System Bezel- Optional Cosmetic outer bezel without cutout for Intel Local Control Panel (LCP). For use with APLFP. Includes lock with keys.
APL1UCHSPRKIT	869360 <a href="#">881900</a>	7 35858 17419 0	SR1450 Chassis spare kit- A kit of all small, removable, chassis parts: CDROM tray assembly, floppy bracket assembly, front panel tray assembly, riser assembly, processor air duct, power supply air duct, power supply filler panel, 2 rack ears, all types of loose chassis screws. <a href="#">MM# 881900 is RoHS Compliant.</a>
APL1UEESPRKIT	869361 <a href="#">881836</a>	7 35858 17420 6	SR1450 electronics and cables spare kit- Cables (Front panel, IDE, floppy, SCSI, SATA x3, USB, fan board, intrusion switch) internal AC enclosure assembly with internal AC cable, floppy adapter board, CDROM adapter board, intrusion switch assembly, <a href="#">MM# 881836 is RoHS Compliant.</a>
FPLPWRDIST	869366 <a href="#">881755</a>	7 35858 17426 8	SR1450 spare power distribution board with power cable harness. <a href="#">MM# 881755 is RoHS Compliant.</a>

FPLPACKAGING	869362	7 35858 17424 4	SR1450 Shipping box kit- a complete set of shipping box packaging (cardboard plus cushions). Note: this SKU is different than the original factory shipping packaging. It is a slightly larger box designed to allow more space to include shipping a bezel and rails along with the unit.
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## Existing Production Parts for use with SR1450 Chassis

Board Order Codes- SE7520JR2 production SKUs

Product Code	UPC	MM	Description	Qty Per
SE7520JR2SCSID1	00735858167383	<del>867828</del> 879640	Intel Server Board SE7520JR2 Boxed Board - DDR266/333 SCSI (MOQ = 5) MM# 879640 is RoHS compliant	1
SE7520JR2ATAD1	00735858167406	<del>867824</del> 879639	Intel Server Board SE7520JR2 Board - DDR 266/333 SATA boxed version (MOQ = 5) MM# 879639 is RoHS compliant	1
SE7520JR2SCSID2	735858167352	876249** 876248**	Intel Server Board SE7520JR2 Boxed Board - DDR2 SCSI version (MOQ = 5) MM# 876248 is RoHS compliant	1
SE7520JR2ATAD2	00735858167376	<del>861066</del> 876355** 879638**	Intel Server Board SE7520JR2 Boxed Board - DDR2 SATA (MOQ = 5) MM# 879638 is RoHS compliant	1
BJRDDR1BB	00735858167390	867823 870221 879642	Intel Server Board SE7520JR2 Board - DDR 266/333 SCSI OEM version MM# is 879642 RoHS compliant	10
BJRDDR2BB	00735858167369	<del>861065</del> 870233 875897** 879644**	Intel Server Board SE7520JR2 DDR2 - SCSI OEM version MM# is 879644 RoHS compliant	10
BJRDDR2SATABB	00735858170918	863332 870608 876436** 879645**	Intel Server Board SE7520JR2 DDR2 - SATA OEM version MM# is 879645 RoHS compliant	10
BJRDDR1SATABB	00735858167826	868003 870229 875896 879643	Intel Server Board SE7520JR2 DDR1 - SATA OEM version MM# is 879643 RoHS compliant	10

\*\* these MM#'s support the Dual-Core Intel® Xeon™ Processor (Socket F).

SR1450 (1U) Chassis –

**Existing common spares/accessories- to be used with SR1450**

Product Code	UPC	MM	Description	Qty Per
<a href="#">AXXDVDROM</a>	<a href="#">00735858184717</a>	<a href="#">881097</a>	<a href="#">Slim-line DVD-ROM, single pack.</a>	<a href="#">1</a>
AXXSCD	00735858164269	856519 <a href="#">880561</a>	Slimline CD drive for use in SR1400/1450/SR2400. <a href="#">(MM# 880561 is RoHS compliant)</a>	1
AXXSFLOPPY	00735858164276	856444	Slimline floppy drive for use in SR1400/1450/SR2400	1
AXXDVDCDR	00735858164962	857593 <a href="#">880559</a>	DVD/CDR slimline drive for SR1400/1450/SR2400. Supports DVD/CD and CD write. <a href="#">(MM# 880559 is RoHS compliant)</a>	1
AXXFLOPHDDTRAY	00735858167987	862684	SR1400/1450/SR2400: hard drive to slimline floppy conversion kit. Converts a hotswap SCSI/SATA drive bay to a slimline floppy bay.	1
AXXIMMPRO	00735858167086	865783	Intel Server Management - Professional module. Contains hardware mezzanine card. Server Management upgrade option providing additional features (eg. IPMI 2.0, serial support, etc.).	1
AXXIMMADV	00735858167093	865669	Intel Server Management - Advanced module. Contains hardware mezzanine card, additional 10/100 NIC mezzanine card, and cables. Server Management upgrade option providing additional features (eg. remote keyboard/video/mouse, embedded web server, etc.).	1
AXXFLASHPWR	00735858167994	866254	SE7520JR2 - ATA flash drive power cable. Power cable that provides a clean cabling solution to an M-systems* ATA flash drive with the ATA connector. M-systems* part number for the ATA flash disk is MD1150-Dxxx.	1
ADWPCIEXPR	00735858164931	856373	SR1400/1450 (1U) Full Height PCI-Express* riser (one PCI-Express* x8 slot).	1
ADWPCIXR	00735858167895	865412	SR1400/1450 (1U) Full Height PCI-X riser (one PCI-X slot)	1
ADWLPRISER	00735858167901	861837	SR/1400/1450 (1U) Low Profile PCI-X riser (one low profile PCI-X slot). NOTE: this riser is already included in the SR1400/1450 chassis. It is an optional accessory for the SR1435VP2 platform. It can also be used for SE7520JR2 board in non-Intel chassis	1
AXXHERAIL	00735858164948	856370 <a href="#">881328</a>	SR1400/SR1450/2400 - tool-less rail kit. Note: cable management arm option also available.	1
<a href="#">AXXRACKCARM</a>	<a href="#">00735858167970</a>	<a href="#">881329</a>	<a href="#">Cable management arm. For use with AXXHERAIL MM# 881328 only. <b>Note:</b> this SKU replaces APLCARM starting in Q3 '06.</a>	<a href="#">1</a>
<a href="#">AXXBASICRAIL</a>	<a href="#">00735858184748</a>	<a href="#">881096</a>	<a href="#">Basic slide rail kit. Does not support Cable Management Arm.</a>	<a href="#">1</a>

AXXBRACKETS	00735858168618	863262	SR1400/SR1450/SR2400 - rack brackets. Set of brackets to hard mount chassis to rack.	1
PWRCABLEUS	--	816324	North American power cord	1
ADWMETALHND	00735858171540	867229	Optional metal handles for SR1400/1450. Shipped in pairs (one 10 pack contains 20 handles). NOTE: standard plastic handles are included in SR1400/SR1450.	10
AXXRJ45DB92	735858155212	847595 881944	Serial cable adapter kit. 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 2 <sup>nd</sup> serial port from the baseboard (this ribbon cable is not used with the Intel Server Chassis SR1450). MM# 881944 is RoHS compliant.	1

#### Appendix 1: Boxed Processors Support

The Intel Server Board SE7520JR2 supports the 64-bit Intel® Xeon™ processor with 1MB L2 cache and the 64-bit Intel® Xeon™ processor with 2MB L2 cache with 800 MHz System Bus. Boards based on DDR2 memory also support Dual-Core Intel Xeon Processors (see board order code section for compatible server board options). The following boxed Intel processors are designed and validated for use with the SR1450 (1U) chassis:

Product Code	Description
BX80546KGxxxxEU	<ul style="list-style-type: none"> <li>Passive 1U - For use in SR1400/1450 (1U)</li> <li>Note: "xxxx" in product code represents processor frequency, for example 3.40GHz = "3400"</li> <li>1MB L2 cache</li> </ul>
BX80546KGxxxxFU	<ul style="list-style-type: none"> <li>Passive 1U - For use in SR1400/1450 (1U)</li> <li>Note: "xxxx" in product code represents processor frequency, for example 3.40GHz = "3400"</li> <li>2MB L2 cache</li> </ul>
BX80551KGxxxxHU	<ul style="list-style-type: none"> <li>Passive 1U - For use in 1450 (1U)</li> <li>Note: "xxxx" in product code represents processor frequency, for example 3.40GHz = "3400"</li> <li>Dual-Core Intel Xeon Processor (2x 2MB cache)</li> </ul>

See <http://support.intel.com/support/motherboards/server/se7520jr2> for latest list of supported processor SKUs.

## Appendix 2: Order Codes Summary Table

**Note:** in addition to this document, there is a web based tool to assist customers in selecting components for Intel Server Products available here: <http://www.intel.com/go/serverconfigurator>

# SR1450 1U Chassis Building Block Options

Step 1 – Pick Required Items (Choose One)					
Server Board SE7520JR2	Server Chassis SR1450	Hot Swap Drive Bay Assembly	Riser Options Full Height	Front Control Panel	Rack Mounting Options
1) SE7520JR2SCSID1 - SCSI and DDR266/333 2) SE7520JR2SCSID2 - SCSI and DDR2-400 3) SE7520JR2ATAD1 - DDR266/333 SATA 4) SE7520JR2ATAD2 - DDR2-400 SATA	1) SR1450 - w/ one low-profile PCI-X 2) SR1450NA - w/ one low-profile PCI-X & North America power cord	1) A1450SCSIKIT - SCSI hot-swap backplane and cables 2) A1450SATAKIT - SATA hot-swap backplane and cables	1) ADWPCIEXP - 1U PCI Express riser 2) ADWPCIXRIS - 1U PCI-X riser	1) APLFP - Front Control Panel kit 2) APLLCP - Intel Local Control Panel (IMM required)	1) AXXHERAIL - Tool less slide rail kit 2) AXXBASICRAIL - Basic slide rail kit 3) AXXBRACKETS - Rack Brackets

Step 2 – Pick Optional Accessories				
SR1450 Power Supply Module	SR1450 Front Bezel	Slim-Line Optical or Floppy	Server Mgmt. Modules	Misc. Accessories & Kits
1) APL520WPS - 520W Power Supply module (2 <sup>nd</sup> module required for full redundancy)	1) APLLCDBEZEL - Bezel w/ cutout for Local Control Panel 2) APLBEZBLACK - Bezel for Standard Control Panel	1) AXXSCD - Slim-line CD drive 2) AXXSFLOPPY - Slim-line floppy drive 3) AXXDVDCDR - Slim-line DVD/CD and CD Writer 4) AXXFLOHDDTRAY - Converts HDD bay to slim floppy	1) AXXIMMPRO - Intel Server Management – Professional Edition 2) AXXIMMADV - Intel Server Management – Advanced Edition	1) AXXFLASHPWR - ATA Flash Drive Power Cable 2) AXX2ICMBKIT - Legacy ICMB card (requires IMM) 3) APLCARM or AXXRACKCARM - Cable mgmt arm (AXXHERAIL required) 4) AXXRJ45DB92 - RJ45 to DB9 serial adapter kit

Spares – For Field Replacements	
SR1450 Maintenance Kits	Individual Spares
1) APL1UCHSPRKIT - SR1450 Chassis Preventive Maintenance Kit 2) APL1UEESPRKIT - SR1450 Electronic parts & cables Preventive Maintenance Kit	1) FPLPWRDIST - SR1450 power dist. board spare 2) FPLPACKAGING - Spare SR1450 packaging 3) APLFAN - Spare SR1450 fan kit 4) APLHDDCAR - Spare hard drive carrier