

Intel Server Board SE7221BK1-E Intel[®] Server Platform SR1425BK1-E, Intel Server Chassis SC5250-E Spares/Parts List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel Server Board SE7221BK1-E with the Intel Server Chassis SC5250-E and the Intel Server Platform SR1425BK1-E (Integrated 1U Platform)

~Subject to Change Without Notice~

Rev 1.2 – Product Configuration Guide – Production Product Codes Only

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Change History:

<u>7/7//2004</u>	<u>Rev .8 Pre-production Config Guide</u>
<u>7/27/2004</u>	<u>Rev .9 Pre-production Config Guide with updated ordering information</u>
<u>9/10/2004</u>	<u>Rev 1.0 Production and Silver Config Guide</u>
<u>9/30/2004</u>	<u>Rev 1.1 Updated silver accessory codes to production accessories (SATA backplane, bezel)</u>
<u>10/27/2004</u>	<u>Rev 1.2 Removed silver references, updating formats. Added RAID Controller Table</u>

Intel Entry Server Board SE7221BK1-E Production Skus

Intel Entry Server Board SE7221BK1-E Product Family Overview

The Intel SE7221BK1-E product family consists of four production board skus and an integrated 1U sku known as the Intel Server Platform SR1425BK1-E. This configuration guide describes the following production board and chassis skus which are being offered as part of the SE7221BK1-E product family;

- a) **SE7221BK1** – Boxed board (base sku) with a single Intel GbE controller
- b) **SE7221BK1LX** – Boxed board with dual Intel GbE controller and support for the Intel® Adaptive Slot
- c) **BBKBB** – OEM 10-pack (base sku) with a single Intel GbE controller
- d) **BBKBBLX** – OEM 10-pack (LX SKU) board with dual Intel GbE controller and support for the Intel® Adaptive Slot.
- e) **SR1425BK1** – Integrated 1U server platform (See SR1425BK1-E Configuration Overview Section below for more information)

Note the Intel® Adaptive Slot with the SE7221BK1LX sku supports either a single PCI-E x8 or Riser Connector for PCI-E X8 or PCI-X 100

SE7221BK1-E Product Family Board Configuration Overview

This section contains information needed to order and configure a production Server Board SE7221BK1-E with a Server Chassis SC5250-E or a third party chassis.

1. The SE7221BK1-E product family is offered in four production board configurations;
 - a) **SE7221BK1** – Boxed board (base configuration: Parallel ATA and Serial ATA device support)
 - b) **SE7221BK1LX** – Boxed board base configuration with dual GbE Intel controller and support for the Intel® Adaptive slot
 - c) **BBKBB** – OEM 10-pack (10-pack of boards; base configuration)
 - d) **BBKBBLX** – OEM 10-pack (10-pack of boards; base configuration with dual Intel GbE and support for the Intel Adaptive Slot)
2. The production **Boxed Server Board SE7221BK1** contains the following:
 - a. One Intel® Entry Server Board SE7221BK1 (base configuration)
 - b. Quick Start User Guide
 - c. 2 CD-ROMs with Intel Server Management 8.x software, software drivers, configuration tools, and technical product information
 - d. Two Serial ATA cables
 - e. One floppy-drive cable
 - f. One ATA/66/100 drive cable
 - g. ATX 2.01-compliant I/O shield and gasket
 - h. Configuration label, stickers and back-panel label
3. The production **Boxed Server Board SE7221BK1LX** contains the identical accessories following to the boxed SE7221BK1 listed above in section 2:
4. **The Intel Entry Server Board SE7221BK1-E has been validated with the following Intel chassis:**
 - Intel Server Chassis SC5250-E

5. **The Intel Entry Server Board SE7221BK1-E is also validated with a number of third party pedestal and high-density chassis. Please see the SE7221BK1-E section of support.intel.com (post launch) and the product snapshot updates (pre-launch) for the latest reference chassis list and information.**

Intel Server Platform SR1425BK1-E Configuration Overview

This section contains ordering and configuration information for the Intel Server Platform SR1425BK1-E. This is an Intel designed and integrated 1U high density platform consisting of an SE7221BK1-E family server board and an Intel 1U enclosure which is designed only to be supported and offered to customers as the Intel Server Platform SR1425BK1 product sku.

Note: Intel is not offering a stand alone SR1425-E chassis sku for the SE7221BK1-E product family. Customers configuring with third party high density chassis solutions should order one of the four SE7221BK1-E board configurations described in the previous section (See section 1 of the SE7221BK1-E Board Configuration Overview)

One Integrated 1U sku will be made available for production -- The **Intel Server Platform SE1425BK1-E** will come with the following key features;

- One Intel SE7221BK1LX Baseboard
- One 300W Power Supply
- Five High Performance Fans
- Support for up to three fixed SATA drives (fixed drive support capable without required accessories)
- SATA backplane with 3 hard drive carriers (optional SATA backplane available as an additional accessory)
- SCSI backplane with 3 hard drive carriers (optional SCSI backplane available as an additional accessory)
- CD and Floppy tray assemblies
- Front panel board assembly and 34-pin front panel cable
- Three fixed hard drive carriers
- PCI bracket assembly and filler panel
- Intel 1U Heatsink and backplate
- Rack handle set, front panel board, duct/baffle
- 3 SATA Cables, floppy cable and CDROM 80-pin cable
- Quick Start Guide and labels
- Chassis intrusion switch
- Optional Accessory: Full height PCI-Express riser card

- Optional Accessory: Full height “active” PCI-X riser card

Note: The Intel Server Platform SR1425BK1-E does **not** ship with a CPU, HDD, memory, floppy drive or CD drive populated. CD and floppy drives can be ordered from the SR1425BK1-E accessory list below.

See the accessory list in this configuration guide for a list of available SR1425BK1-E spares and accessories along with the necessary ordering information. Please reference the latest THOL for the most recent list of validated and compatible drives and peripherals.

Intel Entry Server Board SE7221BK1-E SKUs – Production Order Codes

Product Code	UPC	MM	Description	Qty Per
SE7221BK1	7 35858 16865 6	862082	Boxed SE7221BK1 server board – DDR2, Single GbE OEM 10-pack sku, 10-pack base board only (base configuration with DDR2 support and a Single GbE)	1
BBKBB	7 35858 16955 4	862081	Boxed SE7221BK1LX server board – DDR2, Dual GbE + Intel Adaptive Slot	10
SE7221BK1LX	7 35858 16952 3	862069	OEM 10-pack sku, 10-pack base board only (base configuration with DDR2 support and Dual GbE)	1
BBKBBLX	7 35858 16956 1	862083		10

Intel Entry Server Platform SR1425BK1-E – Production Order Codes

Product Code	UPC	MM	Description	Qty Per
SR1425BK1	7 35858 16866 3	864466	Integrated 1U SR1425BK1-E Platform – Production sku with board, chassis and 1U heatsink. Fixed drive capable, includes Intel Entry Server Board SE7221BK1LX, 1U Heatsink, 300W PS, five system fans, cooling duct, cables, labels, drive carriers, product CD's and other additional items – Power cord not included	1
SR1425BK1NA	7 35858 17178 6	866318	Integrated 1U SR1425BK1-E Platform – Production sku with board, chassis and 1U heatsink. Fixed drive capable, includes Intel Entry Server Board SE7221BK1LX, 1U Heatsink, 300W PS, five system fans, cooling duct, cables, labels, drive carriers, product CD's and other additional items – Power cord not included	1

Intel Server Chassis SC5250-E Order Codes

Product Code	UPC	MM#	Quantity Included	Description
KPTBASE450	7 35858 15945 6	858478	1	SC5250-E production chassis (Beige color) – Power cord NOT included
KPTBASE450NA	7 35858 15945 6	858513	1	SC5250-E production chassis (Beige color) – Power cord Included
KPTBASE450BLK	7 35858 15964 7	858479	1	SC5250-E production chassis (Black color) – Power cord NOT included
KPTBASE450BLK NA	7 35858 15964 7	858511	1	SC5250-E production chassis (Black color) – Power cord included

Intel Entry Server SR1425BK1-E Platform Accessories

* Denotes Common Accessory to Intel Server Chassis SR1400 and SR1400LC

Product Code	UPC	MM	Description	Qty Per
A1400SATAKIT*	7 35858 1 64924	857010	SR1400 (1U) Hotswap SATA backplane. Contains SATA backplane, flex cable, slimline tray and three drive carriers	1
A1400SCSIKIT*	7 35858 1 64917	866091	SR1400 (1U) Hotswap SCSI backplane. Contains SCSI backplane, flex cable, SCSI cable, slimline tray and three drive carriers	1
ABKPCIEXPUP	7 35858 16957 8	864842	SE7221BK1-E, 1U Full height PCI-Express riser (one PCI-Express x8 slot)	1
ABKPCIXUP	7 35858 16958 5	864844	1U Full height PCI-X riser (one PCI-X slot)	1
ADWBEZBLACK*	7 35858 1 69110	865064	SR1400 1U black bezel with standard control panel SR1400/SR2400 – tool less rail kit.	10
AXXHERAIL*	7 35858 16494 8	856370	Note: Cable management arm also available as noted below (AXXRACKCARM) Cable arm for SR1400/SR2400 tool less rail kit. Requires tool less rail kit accessory listed above	1
AXXRACKCARM*	7 35858 1 67970	866107	(AXXHERAIL)	1
AXXBRACKETS*	7 35858 1 68618	863262	SR1400/SR2400 Rack Brackets. Set of brackets to hard mount chassis to rack.	1
ABKSCSICABLE	7 35858 17179 3	865884	SCSI Cable for SR1425BK1-E– enables fixed SCSI drive capability	1
AXXSCD*	7 35858 16927 1	856519	Slimline CD drive for use in SR1400/SR2400 chassis	1
AXXSFLOPPY*	7 35858 16928 8	856444	Slimline Floppy drive for use in SR1400/SR2400 chassis	1
AXXDVDCDR*	7 35858 16496 2	857593	Slimline DVD/CDR drive for use in SR1400/SR2400 chassis	1

Intel Entry Server Platform SR1425BK1-E Spares

Product Code	UPC	MM	Description	Qty Per
FXXCBL300K	7 35858 17180 9	865878	Spare 300W Power Supply for Intel Entry Server Platform SR1425BK1-E	1
FBK1UCHSPRKIT	7 35858 17181 6	865875	Spare SR1425BK1-E Chassis Maintenance Pack.	1

Includes the following items;

- Fan Duct
- CDROM Tray Assembly
- PCI Filler Panel
- Front panel board assembly
- USB Cable
- 34-pin front panel cable
- Chassis Intrusion Switch
- Floppy interposer
- CDROM interposer (40-pin)
- Floppy Bracket Assembly
- SATA power cable
- Floppy cable (34-pin)
- Floppy cable (26-pin FFC)
- CD-ROM cable (80-pin)
- SATA Cable (qty=1)
- I2C cable
- HDD Drive Carrier sled (qty=1)
- Slimline power adapter harness

AXXBKHS	7 35858 17182 3	865877	Spare 1U Heatsink Spare with documentation Spare – SR1425BK1-E Fan Pack Spare (Includes two fan spares – one of each type required for use in the Integrated Server Platform SR1425BK1-E)	1
FBKFANUP	7 35858 17183 0	865876		1

SC5250-E Production Chassis Spares and Accessories

Product Code	MM #	UPC	Qty. Included	Description
AXX2HSDRVUG	835948	7 35858 14630 2	1	HOT SWAP SCSI DRIVE UPGRADE KIT - UPGRADE BASE KDK SKU TO 5 HOT SWAP SCSI DRIVES
FPTPMKIT	852425	7 35858 15972 2	1	Maintenance Kit Includes; 1 Front Panel Board 1 Front Panel cable 1 USB cable 1 Intrusion Switch/cable 1 92MM fan 1 120MM fan with fan guard attached 1 box of hardware which consist of: 2 left side peripheral rails 2 right side peripheral rails 1 lockplate 15 standoffs for server board mounting 9 screws to mount RM 38 screws to mount server board, etc (common screw) 11 countersunk screws to mount CDROM, Floppy, etc 4 screws to mount fan to a Hud3 HS Bay

				4 tie wraps for cable management 1 cable clamp for cable management 1 cable tie to cable management with Hud3 HS Bay 1 rubber bumper for server board mounting 2 mounting brackets for Hud3 HS bay
PWRCABLEUS	816324	7 35858 16288 3	1	North American Power Cord
ASATAHSDB	853276	7 35858 15948 7	1	SATA Drive bay including SATA hot swap drive bay assembly, 4 SATA drive carriers, 1 SATA connection ID label, 4 SATA cables and 1 user guide. Works with SC5250-E and SC5200 Base, BRP and HSRP chassis
FPTCOSMKIT	852424	7 35858 15973 9	1	SC5250-E Cosmetic kit 1 black bezel 1 dusty beige bezel 4 chassis feet 2 side cover latches

Intel® RAID Controller Options for Server Board SE7221BK1-E

Product Code	MM #	UPC	Quantity Included	Description
SRCS14L	850067		5	Intel® RAID Controller: SRCS14L; SATA RAID 4-Channel; PCI 64/66
SRCS16	858577		5	Intel® RAID Controller: SRCS14L; 6-port SATA RAID controller; 64/66MHz PCI, Intel® 80302 IOP @ 100MHz, 64MB embedded memory
SRCU42E	861692		5	Intel® RAID Controller: SRCU42E; x8 PCI-Express*, 2 channel Ultra 320 SCSI RAID Controller; Intel® 80332 IOP @ 500MHz, Support 128-512MB memory DIMM
SRCU42L	847810		5	Intel® RAID Controller: SRCU42L; PCI 64/66MHz, SCSI RAID 1-Channel; Intel® 80321 IOP @ 400MHz, Support 128-512MB memory DIMM

SRCU42X	855829		5	Intel® RAID Controller: SRCU42X; 64/133 PCI-X, 2-channel Ultra 320 SCSI RAID Controller