

Intel[®] Enterprise Blade Server Family Configuration Guide and Spares/Parts List



A reference guide to assist customers in ordering components to configure Intel[®] Enterprise Blade Server Family and all related components.



Rev 3.4

Table of Contents

- Table of Contents 2
- Intel® Blade Server Chassis SBCE, Accessories, and Spares..... 3
- Intel® Blade Server Ethernet Solutions..... 6
- Intel® Blade Server Fibre Channel Solutions..... 8
 - Fibre Channel Host Bus Adapters..... 8
 - Optical Transceivers..... 11
- Intel® Optical Pass-thru Module and Cables 12
 - Optical Pass-thru Module Cables 13
- Intel® Server Compute Blade SBX82, Accessories, and Spares 14
- Intel® Server Compute Blade SBXD62, Accessories, and Spares 16
- Intel® Server Compute Blade SBXD132, Accessories, and Spares..... 17

Intel® Blade Server Chassis SBCE, Accessories, and Spares

Table 1: SBCE Chassis and Accessory Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|----------|-----------------|------------------------------------|---|-----------|
| Chassis | SBCE | 877041 (not RoHS compliant) | <p>The SBCE is a 7U modular chassis that is capable of housing up to 14 blade servers. The chassis allows individual blades to share resources such as power, communications, management and cooling. The SBCE chassis includes compute blade fillers which are required if a slot is not populated by a blade server. All blade fillers (blades and back panel module) are required to provide proper airflow and system cooling.</p> <p>The SBCE chassis can accommodate a total of 1 to 14 blade servers, 1 to 4 Ethernet switches, 1 or 2 fiber channel switches, 2 or 4 power supplies, 2 blowers, and 1 or 2 management modules</p>  <p>This product code includes the following:</p> <ul style="list-style-type: none"> • 1x Chassis • 1x Management module • 2x Blowers • 2x 2000W power supplies • 1x CD-ROM • 1x Floppy • 1x Rack mount kit • 13x Blade fillers • 3x Switch module fillers • 1x Management module filler • 2x Power supply fillers <p>This product code does not include blade servers, Ethernet switches, fiber channel switches, or power cords</p>  | 1 |
| Chassis | SBCE | 876088 (RoHS) | | 1 |

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|----------------------|--|-----------|
| Accessory | ABCEPSU20 | 876087 (RoHS) | 2000 Watt power supply module The SBCE chassis includes two 2000 Watt hot-swap power supplies which provided power to blade server slots 1 thru 6, fans, and all switch and management modules. To use blade server slots 7 thru 14, two additional ABCEPSU20 power supplies are required. The power supply option does not include a power cord. | 1 |
| Accessory | ABCEPSU20 | 860636 (not RoHS) | 2000 Watt power supply module | 1 |
| Accessory | SBCECMM | 868617 (not RoHS) | Chassis Management Module Each SBCE chassis includes one hot swap Management Module. A second module can be installed for redundant Management Module operation. This module will not be made RoHS compliant. | 1 |
| Accessory | SBCECMM2 | 879895 (RoHS) | Advanced Chassis Managed Module RoHS compliant management module with additional features such as SMASH compliance. | 1 |
| Accessory | SBCEMUFF | 875906 (RoHS) | Acoustic Muffler For noise sensitive environments. Installed on the SBCE chassis to reduce fan noise. | 1 |



Table 2: SBCE Chassis Spares

| Category | Production Code | Production MM | Description | Min Order |
|----------|-----------------|------------------|--|-----------|
| Spare | SBCERACK | 875905 (RoHS) | Spare rack mount kit | 1 |
| Spare | SBCEBLWR | 875894 (RoHS) | Spare blower | 1 |
| Spare | SBCEMIDP | 875910 (RoHS) | Spare SBCE midplane | 1 |
| Spare | ABCEFLOP | 875904 (RoHS) | Spare floppy drive | 1 |
| Spare | ABCEDVD | 865263 (RoHS) | Spare DVD ROM drive | 1 |
| Spare | SBCEBDKIT | 875848 (RoHS) | Spare chassis front customer interface board | 1 |
| Spare | ABCEBDCIR | 875759 (RoHS) | Spare chassis rear customer interface board | 1 |
| Spare | ABCEBD CD | 878129 (RoHS) | Spare CD interposer | 1 |
| Spare | SBCECBLKIT | 875904 (RoHS) | Spare SBCE cable kit 1x Media cable and bracket 1x Signal, CD interposer to chassis CI card cable 1x Power, CD interposer to chassis CI card cable 1x Signal, floppy to chassis CI card 1x Signal, chassis CI card to media to CP cable | 1 |

Intel® Blade Server Ethernet Solutions

Table 3: Ethernet Switches and Adapters

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|---------------|---|-----------|
| Accessory | SBCEGBESW1 | 880176 | <p>Intel Gigabit Ethernet Switch SBCEGBESW1 – 6 External/uplink Ports</p> <p>The SBCEGBESW1 is an Ethernet switch designed to work with the SBCE blade chassis. The SBCE chassis supports one up to four Ethernet switch modules installed in chassis switch-module bays 1, 2, 3, & 4. The switch module in bay 1 provides an internal connection to Ethernet adapter 1 on all blade servers in the chassis and is required for basic operation of the blade servers. To connect to Ethernet adapter 2 on each blade server, install an Ethernet switch module in switch-module bay 2. For 2 additional Ethernet channels, Ethernet I/O adapters must be added to the blades and Ethernet switches can be installed into switch bays 3 and/or 4.</p> | 1 |
| Accessory | SBCEGBESW10 | 880175 | <p>Intel Gigabit Ethernet Switch SBCEGBESW10 – 6x 1GbE & 2 10GbE External/uplink Ports</p> <p>The SBCEGBESW10 Ethernet switch is identical to the SBCEGBESW1 switch with the addition of 2 10Gb Ethernet ports. Optical transceivers for the 10Gb ports are available under model code TXN181070850X28 (MM#870071).</p> | 1 |
| Accessory | TXN181070850X28 | 870071 | 10Gb Optical Transceiver for use with SBCEGBESW10 | 1 |
| Accessory | IXM5414E | 883795 (RoHS) | <p>Intel Gigabit Ethernet Switch – 4 External/uplink Ports</p> <p>The SBCE chassis supports one to four hot-swap Ethernet switch modules installed in switch-module bays 1, 2, 3, & 4. The switch module in bay 1 provides an internal connection to Ethernet adapter 1 on all blade servers in the chassis and is required for basic operation of the blade servers. To connect to Ethernet adapter 2 on each blade server, install an Ethernet switch module in switch-module bay 2. For 2 additional Ethernet channels, Ethernet I/O adapters must be added to the blades and Ethernet switches can be installed into switch bays 3 and/or 4.</p> | 1 |



Adapter card pictured not included


| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|---------------|--|-----------|
| Accessory | SBEGBE | 874280 (RoHS) | <p>GB Ethernet Card – Small Form Factor</p> <p>This is a dual channel Ethernet LAN adapter can be used with SBX82, SBXD62, SBXD132, SBESCSI, SBESAS, and ABBIE. It provides two independent Gb Ethernet connections to switch(es) in switch module bays 3 or 4. Requires that an Ethernet switch be installed in either switch bay 3 and/or bay 4.</p> <p>When using this card the SBX82 can support 2 SCSI HDDs and this card simultaneously.</p> | 1 |
| Accessory | 32R1923 | 886114 (RoHS) | <p>1Gb iSCSI Host Bus Adapter (HBA)</p> <p>This HBA can be used with SBX82, SBXD62, SBXD132, SBESCSI, SBESAS, and ABBIE. It provides SCSI access to Ethernet based SANs via two independent 1-Gb Ethernet connections to the Ethernet switch(es) installed in module bays 3 or 4. Requires that an Ethernet switch be installed in either switch bay 3 and/or bay 4.</p> | 1 |



Intel® Blade Server Fibre Channel Solutions

Fibre Channel Host Bus Adapters

Table 4: Fibre Channel Host Bus Adapters

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|-------------------|---|-----------|
| Accessory | SBEFCM4 | 874895 (RoHS) | <p>4Gb Fibre Channel Host Bus Adapter (HBA) – Small Form Factor</p> <p>This HBA can be used with SBX82, SBXD62, SBXD132, SBESCSI, SBESAS, and ABBIE. It provides two independent 4-Gb Fibre Channel connections to the Fibre Channel switch(es) installed in module bays 3 or 4.</p>  | 1 |
| Accessory | SBEFCM | 863054 (not RoHS) | <p>Fiber Channel Host Bus Adapter (HBA) – Small Form Factor</p> <p>This HBA can be used with SBX82 and SBESCSI and provides two independent 2-Gb Fibre Channel connections to the Fibre Channel switche(s) installed in module bays 3 or 4. The advantage of this card is that the SBX82 can support 2 SCSI HDDs and this card simultaneously. Includes all mounting hardware.</p> <p>Will not be made RoHS compliant</p> | 1 |

Brocade* 4Gb Fibre Channel SAN Switches

Table 5: Brocade* 4Gb SAN Switch Product Codes


| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|------------------|---|-----------|
| Accessory | SBCEBFCSW4 | 874889 (RoHS) | <p>Brocade* 4Gb SAN Switch Module (installs into SBCE chassis)</p> <p>This 4Gb SAN switch is a 10-port Fibre Channel switch with 7 internal server ports & 3 external uplinks. This switch is field upgradeable to 15 or 20-ports using Ports Upgrade software key (ABRSWPTUPD4) to support 14 server blades and 6 external uplinks.</p> <p>This 4Gb Fibre Channel switch can be installed in switch module bay 3, module bay 4 or both. The switch module in bay 3 provides an internal connection to channel 1 on 4Gb or 2Gb FC host bus adapter (SBEFCM4 or SBEFCM) which can be installed on any or all blade servers in the chassis. To connect to HBA channel 2 on each blade server, install a switch module in switch-module bay 4</p> <p>This SAN Switch Module has total of six external uplink ports. However, the 10-port switch has only 3 uplinks active. The remaining 3 uplinks can be activated by using Ports Upgrade key as explained above. Each of the external port requires a Fibre Channel optical transceiver to attach the optical cable to the switch. The switch can support either 4Gb optical transceivers (See SBCEFCSWFS4) or 2Gb optical transceivers (See SBCEFCSWFL and SBCEFCSWFS).</p>  | 1 |

Table 6: Brocade* 4Gb SAN Switch Module Software License Key Upgrades

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|---------------|---|-----------|
| Accessory | ABRSWPTUPD4 | 874946 (RoHS) | <p>Brocade* Port Upgrade Software Key for 4Gb Switch. This key allows a 5-port upgrade to Brocade 4Gb SAN Switch Module.</p> <p>This key will upgrade a 10-port switch to 15-ports consisting of 9 internal server ports & 6 external uplinks. (or) It will upgrade a 15-port switch configuration to activate all 20-ports to support 14 internal server ports & 6 external uplinks.</p> | 1 |
| Accessory | ABRSWPERBDL4 | 874913 (RoHS) | <p>Brocade* Performance Bundle Software Key for 4Gb Switch</p> <p>Software License Key: Brocade Performance Bundle includes ISL Trunking & Advanced Performance Monitoring described below</p> | 1 |
| Accessory | ABRSWISLTRK4 | 874914 (RoHS) | <p>Brocade* ISL Trunking Software Key for 4Gb Switch</p> <p>Software License Key: Brocade Inter-switch Link Trunking.</p> | 1 |
| Accessory | ABRSWAPMON4 | 874923 (RoHS) | <p>Brocade* Advanced Performance Monitoring Software Key for 4Gb Switch</p> <p>Software License Key: Brocade Advanced Performance Monitoring</p> | 1 |
| Accessory | ABRSWEXFAB4 | 874940 (RoHS) | <p>Brocade* Extended Fabrics Software Key for 4Gb Switch</p> <p>Software License Key: Brocade Extended Fabrics upgrade</p> | 1 |
| Accessory | ABRSWSFABOS4 | 874945 (RoHS) | <p>Brocade* Advanced Security Software Key for 4Gb Switch</p> <p>Software License Key: Brocade Advanced Security OS upgrade</p> | 1 |
| Accessory | ABRSWFABW4 | 874947 (RoHS) | <p>Brocade* Fabric Watch Software Key for 4Gb Switch</p> <p>Software License Key: Brocade Fabric Watch upgrade</p> | 1 |

Optical Transceivers

Table 7: 2Gb & 4Gb Optical transceivers

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|---------------|--|-----------|
| Accessory | SBCEFCSWFS4 | 878324 (RoHS) | Short Wavelength, Multi Mode 4Gbit Fibre Channel Optical Transceiver for the SBCEBFCSW4 switch | 1 |
| Accessory | TXN22125D000003 | 883307 (RoHS) | Long Wavelength 4Gbit Fibre Channel Optical Transceiver for the SBCEBFCSW4 switch | 1 |

Intel® Optical Pass-thru Module and Cables

Table 8: Intel® Optical Pass-thru Module Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|---------------|---|-----------|
| Accessory | SBCEOPM | 878137 (RoHS) | <p>Optical Pass-thru Module (installs into SBCE chassis)</p> <p>This Optical Pass-thru Module can be installed in switch module bay 1, module bay 2, or both; module bay 3, module bay 4 or both to easily integrate a blade server into your existing Fibre Channel SAN or Optical Gigabit Ethernet network environment.</p> <p>This optical pass-thru device supports 2Gb Fibre Channel but does not support 2Gb Fibre Channel operation.</p> <p>The optical pass-thru module in bay 3 provides an internal connection to channel 1 on a fibre channel host bus adapter (HBA) or Gigabit Ethernet Card (NIC) which can be installed on any or all blade servers in the chassis. To connect to HBA or NIC channel 2 on each blade server, install an optical pass-thru module in bay 4. Similarly, the optical pass-thru module in bay 1 provides an internal connection to channel 1 on the Gigabit Ethernet integrated on the blade server. To connect to channel 2 on the Gigabit Ethernet integrated on the blade server, install an optical pass-thru module in bay 2.</p> <p>Each Optical Pass-thru Module has four external optical ports. Each port requires an Optical Pass-thru Module Cable to attach each blade server in the chassis in a one-on-one ratio to an external Fibre Channel switch port or Optical Gigabit Ethernet switch port. See SBCEOPMSC and SBCEOPMLC.</p> | 1 |



Optical Pass-thru Module Cables

Table 9: Optical Pass-thru Module Cables

| Category | Production Code | Production MM | Description | Min Order |
|-----------------|------------------------|----------------------|---|------------------|
| Accessory | SBCEOPMSC | 878139 (RoHS) | Short wavelength cable for Optical Pass-thru module SBCEOPM. Each cable supports Eight industry-standard duplex SC fiber-optic cable connections to support four bi-directional optical channels. | 1 |
| Accessory | SBCEOPMLC | 878199 (RoHS) | Long wavelength cable for Optical Pass-thru module SBCEOPM. Each cable supports Eight industry-standard duplex LC fiber-optic cable connections to support four bi-directional optical channels. | 1 |

Intel® Server Compute Blade SBX82, Accessories, and Spares

Table 10: SBX82 Blade Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|----------|-----------------|----------------------|--|-----------|
| Blade | SBX82 | 870607 (not RoHS) | <p>The Intel® Server Compute Blade SBX82 provides up to two Intel® Xeon™ processors</p> <p>Other blade features include:</p> <ul style="list-style-type: none"> • Support for one or two Intel® Xeon™ processors • 800 MHz front-side bus • 4 memory sockets supporting 256 MB, 512 MB, 1 GB, 2 GB DIMMs, DDR II 400 • Integrated small form factor SCSI disk drives, 36GB or 73GB capacities, with embedded RAID-0/RAID-1 • Optional SCSI storage expansion unit with embedded RAID-1 <p>The SBX82 does not include processors, processor heat sinks, memory, or hard disks.</p> | 1 |
| Blade | SBX82 | 874466 (RoHS) | | 1 |



Table 11: SBX82 Blade Accessory Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|------------------|--|-----------|
| Accessory | AB36SCSIHDKIT | 863483 (RoHS) | 36 GB SFF (2.5") SCSI HDD Kit | 1 |
| Accessory | AB73SCSIHDKIT | 863482 (RoHS) | 73 GB SFF (2.5") SCSI HDD Kit | 1 |
| Accessory | SBESCSI | 879892 (RoHS) | <p>Blade Storage Expansion for the SBX82</p> <p>This is the blade storage expansion unit which is supported only on the SBX82 compute blade. This storage blade supports 2 3.5" SCSI HDDs as well as 2 mezzanine I/O cards (either Ethernet, SBEGBE or Fibre Channel, SBEFCM).</p> | 1 |
| Accessory | ABCR320PAK24 | 854749 (RoHS) | 24 pack of SCSI drive carriers for use with the SBESCSI SCSI expansion module | |

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|------------------|-----------------------------------|-----------|
| Accessory | ABNOCHS | 863237 (RoHS) | Processor Heat Sink for the SBX82 | 1 |

Table 12: SBX82 Blade Spares

| Category | Production Code | Production MM | Description | Min Order |
|----------|-----------------|------------------|--------------------------------------|-----------|
| Spare | ABXECVRL | 863236 (RoHS) | SBX82 Top Cover | 1 |
| Spare | SBEASMSCSI | 878101 (RoHS) | SBESCSI Access Door | 1 |
| Spare | SBESCSIHDBRKT | 878036 (RoHS) | SCSI HDD Mounting tray | 1 |
| Spare | SBXEFPNL | 863246 (RoHS) | Bezel/Front Panel Assembly | 1 |
| Spare | SBXEINTKIT | 863248 (RoHS) | Miscellaneous Parts Kit for Blade | 1 |
| Spare | SBESCM | 863240 (RoHS) | SBX82 Spare - I/O card mounting tray | 1 |

Intel® Server Compute Blade SBXD62, Accessories, and Spares

Table 13: SBXD62 Blade Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|----------|-----------------|------------------|--|-----------|
| Blade | SBXD62 | 880046 (RoHS) | <p>The Intel® Server Compute Blade SBXD62 provides up to two Intel® Xeon™ LV processors. Other blade features include:</p> <ul style="list-style-type: none"> • Support for one or two Intel® Xeon™ LV processors • 677 MHz front-side bus • 4 memory sockets supporting 256 MB, 512 MB, 1 GB, 2 GB, 4 GB DIMMs, DDR II 400 • Integrated small form factor SAS disk drives, 36GB or 73GB capacities, with embedded RAID-0/RAID-1 <p>The SBXD62 does not include processors, processor heat sinks, memory, or hard disks.</p> | 1 |



Table 14: SBXD62 Blade Accessory Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|------------------|---|-----------|
| Accessory | AB36SAS | 880050 (RoHS) | 36 GB 2.5" SAS Hard Drive for SBXD62 and SBESAS | 1 |
| Accessory | AB73SAS | 880049 (RoHS) | 73 GB 2.5" SAS Hard Drive for SBXD62 and SBESAS | 1 |
| Accessory | ABSHSX | 880577 (RoHS) | Processor Heat Sink for the SBXD62 | 1 |

Intel® Server Compute Blade SBXD132, Accessories, and Spares

Table 15: SBXD132 Blade Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|----------|-----------------|---------------|--|-----------|
| Blade | SBXD132 | 884672 | <p>The Intel® Server Compute Blade SBXD132 supports up to two Intel® Dual-Core Xeon® Processor 5100 series processors up to 2.66GHz (5150). Other blade features include:</p> <ul style="list-style-type: none"> • 1333 MHz front-side bus • 4 memory sockets supporting 256 MB, 512 MB, 1 GB, 2 GB, 4 GB DIMMs, DDR II 400 • Integrated small form factor SAS disk drives, 36GB or 73GB capacities, with embedded RAID-0/RAID-1 <p>The SBXD132 does not include processors, processor heat sinks, memory, or hard disks.</p> | 1 |
| Blade | SBXD132 | 887441 | Hardware update adding support for the Intel® Dual-Core Xeon® Processor 5100 series 5160 2.99GHz processor and the Intel® Quad-Core Xeon® Processor 5300 series processors, E5310, E5320, E5335, and E5345. | 1 |

Table 16: SBXD132 Blade Accessory Product Codes

| Category | Production Code | Production MM | Description | Min Order |
|-----------|-----------------|---------------|--|-----------|
| Accessory | AB36SAS | 880050 | 36 GB 2.5" SAS Hard Drive for SBXD62, SBXD132 and SBESAS | 1 |
| Accessory | AB73SAS | 880049 | 73 GB 2.5" SAS Hard Drive for SBXD62, SBXD132 and SBESAS | 1 |
| Accessory | ABSWHSX | 884710 | Processor Heat Sink for the SBXD132 | 1 |
| Accessory | ABBIE | 884707 | I/O and Memory Expansion for Intel® Server Compute Blade SBXD132 | 1 |
| Accessory | SBESAS | 880051 | Intel® Blade Storage Expansion Module (BSE3) for Intel® Server Compute Blade SBXD132 | 1 |
| Accessory | AB256BSE | 880052 | Intel® Blade Storage Expansion Module (BSE3) accessory, 256MB cache memory and battery backup for Intel® Blade Storage Expansion Module SBESAS | 1 |
| Accessory | SBESASCAR | 880055 | 3 hot swappable hard drive carriers for SBESAS | 1 |

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