

Install Drivers, Firmware, and Software

A. Confirm BIOS and FRU/SDR Versions

Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS and FRU/SDR versions. Compare these to the versions at:

http://support.intel.com/support/motl If new versions are available, update the BIOS and FRU/SDR on your server. See the User Guide on the Intel® Server Deployment Toolkit CD for update instructions.

B. Configure your Server with the Server Configuration Wizard

Boot to the Server Board SE7520BD2 Intel® Server Deployment Toolkit CD. Select the Server Configuration Wizard to configure your server for remote server management. Unless you have downloaded a newer version of the FRU/SDR from the Web, use the Server Configuration Wizard also to load the FRU/SDR.

C. Configure your RAID Controller (optional) Use the instructions provided with the RAID contro

D. Install your Operating System Use the instructions provided with the RAID controller and with the operating system.

E. Install Operating System Drivers

With the operating system running, insert the Intel® Server Deployment Toolkit CD. If using a Microsoft* Windows* operating system, the Express Installer will autorun and allow you to select most drivers to install. On other operating systems, browse the CD folders to locate and install the driver

F. Install Intel® Management Module **Professional or Advanced Edition (optional)**

G. Install Intel® Server Management 8 (optional)

With the operating system running, insert the Intel® Server Management 8 CD that came with your server board. On a Windows* operating system, the Setup program will auto-run. Follow the on-screen instructions. For installation details, see *Getting Started* with Intel® Server Manager 8, on the ISM CD.

H. Install Intel® SMaRT Tool 5 (optional)

With the operating system running, insert the Intel® Server Deployment Toolkit CD. The Express Installer will autorun. Click Intel® SMaRT Tool at the left side of the screen. Follow the on-screen instructions. For information about Intel® SMaRT Tool, see http://developer.intel.com/design/servers/smarttool/index.htm.

Reference

Back Panel Diagnostic LEDs

Diagnostic LEDs, System Fault, and System ID are not available on product codes SE7520BD2V or SE7520BD2VD2.

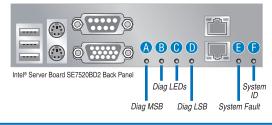
Your Intel Server Board SE7520BD2 has six diagnostic LEDs visible from the chassis back panel. The following text describes the function of each LED:

Diagnostic LEDs A, B, C, and D are multi-colored LEDs that can be OFF, Green, Amber, or Red. Each color represents 4 bits in a 16-bit hexadecimal code. The codes are documented in the Intel® Server Board SE7520BD2 Technical Product Specification.

LED E - System Fault LED, can be OFF or Amber = ON. LED F - System ID, can be OFF or Blue = ON.

Note: It is normal for the LEDs to flash during boot and occasionally during system operation. Analysis of the bits is only necessary if the system is hung, and the LEDs are continuously lit.

Note: USB 3 (top) is available **only** on product codes SE7520BD2 and SE7520BD2SCSI.



Common Problems and Solutions

For a list of hardware components that have been tested with this server board, see:

http://support.intel.com/support/motherboards/server/SE7520BD2

The system does not boot or show video at power-on.

- Check that the +12V CPU power connector is plugged in. Without this cable, the processors will not have any power.
- If configuring with only one processor verify that the processor is in the Primary Processor socket (CPU 1).
- Remove and replace DIMMs one bank at a time to isolate which one is causing problems.
- Remember, all DIMMs must be:
- Registered DDR2-400 compliant or DDR266/DDR333 compliant, depending on the version of the server board. "Minimum Harware Requirements" on the reverse side of this document.
- The same speed.
- From the same manufacturer.
- Installed beginning with DIMM1A and DIMM1B. Installed with no empty sockets in between filled sockets.
- Your power supply must provide a minimum of 600W with 2A standby current, which complies with the SSI EPS 12V specification.

The system sometimes works, but is exhibiting erratic behavior. • This is typically the result of using an under-rated power supply. Make sure you are using at least a 600W power supply.

Accessories and Order Codes	
Intel® Server Chassis SC5300 Base	SC5300BASE
Intel® Server Chassis SC5300 BRP	SC5300BRP
Intel® Server Chassis SC5300 LX	SC5300LX
Intel® Entry Server Chassis SC5275-E	SC5275E
Intel [®] Entry Server Chassis SC5295-E DP	SC5295
Intel® Entry Server Chassis SC5295-E BRP	SC5295BRP

Intel® Server Chassis SC5300 Rack Conversion Kit	ARIGRACK
Intel® Server Chassis SC5300 Hot-Swap SCSI 4-Drive Bay Upgrade Kit	AXX4SCSIDB
Intel® Server Chassis SC5300 Hot-Swap SCSI 6-Drive Bay Upgrade Kit	AXX6SCSIDB
Intel® Server Chassis SC5300 Hot-Swap SATA 6-Drive Bay Upgrade Kit	AXX6SATADB
Intel® RAID Controller SRCU42X	SRCU42X
Intel® RAID Controller SRCU42E	SRCU42E
Intel® RAID Controller SRCZCRX	SRCZCRX
Intel® RAID Controller SRCS16	SRCS16
Intel® Management Module-Professional Edition	AXXIMMPR0
Intel® Management Module-Advanced Edition	AXXIMMADV
Intel® Local Control Panel	AXXI CPPED

A complete list of accessories and spares can be found at: www.intel.com/go/serverbuilder