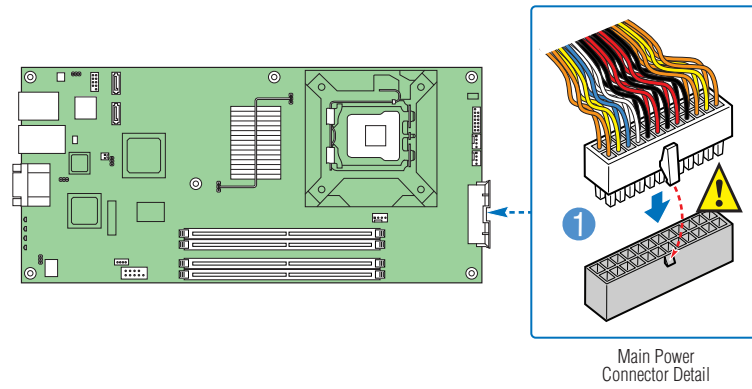


6 Make Server Board Power Connections

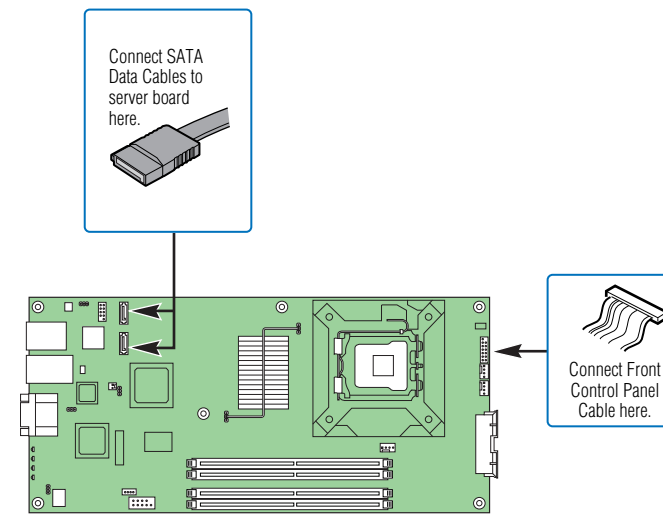
See the documentation that came with your chassis for power connection information.

- 1 Attach the main power connector to the server board.



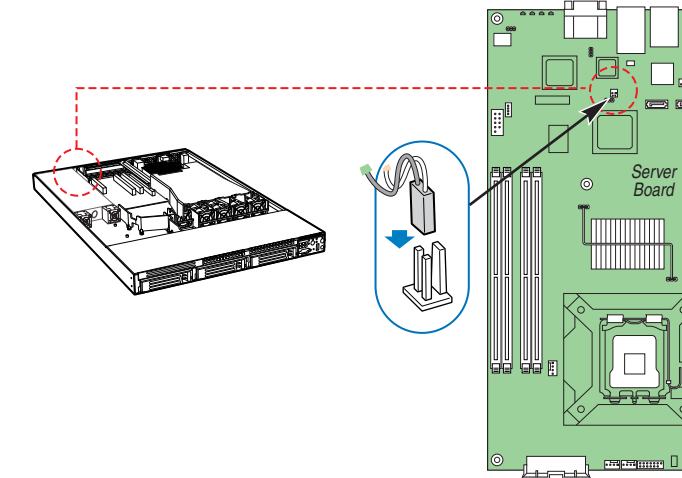
! Note the location of the latch on each power cable connector and align it with the matching tab on each server board socket.

7 Connect SATA Drives / Front Control Panel to Server Board



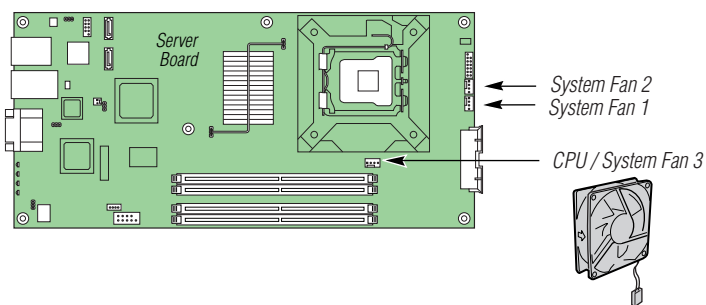
8 Connect Intrusion Switch

See the documentation that came with your chassis for intrusion switch requirements.



9 Connect Chassis Fans

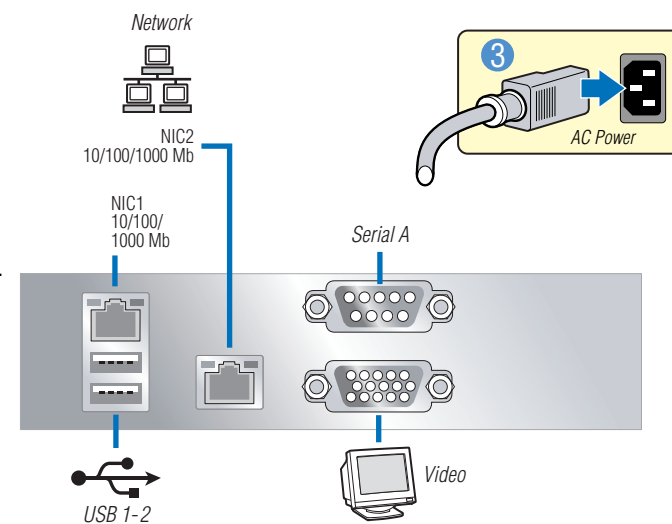
See the documentation that came with your chassis for information on chassis fan connections.



10 Complete Setup

Before installing your operating system, you must make I/O connections and plug in AC power.

- 1 See the documentation that came with your chassis to complete rack or pedestal installation.
- 2 Connect your keyboard, mouse, video, and other I/O cables as shown.
- 3 Connect the AC power cable last.



11 Install Software

- Confirm BIOS Version:** Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS version. Compare this to the versions at: <http://support.intel.com/support/motherboards/server>. If new versions are available, update the BIOS on your system. See the BIOS readme.txt for update instructions.
- Configure On-board RAID via Ctrl-E:** Refer to the installation instructions provided with the RAID controller.
- Install Operating System:** Refer to the installation instructions provided with the operating system.
- Install Operating System Drivers:** Download the latest drivers from the product support website at <http://support.intel.com/support/motherboards/server>.
- Install Intel® SmaRT Tool (optional):** With the operating system running, insert the Resource 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/smartool/index.htm>

Reference

Common Problems and Solutions

For a list of hardware components that have been tested with this system, see: <http://support.intel.com/support/motherboards/server/se7230ca1-e/>

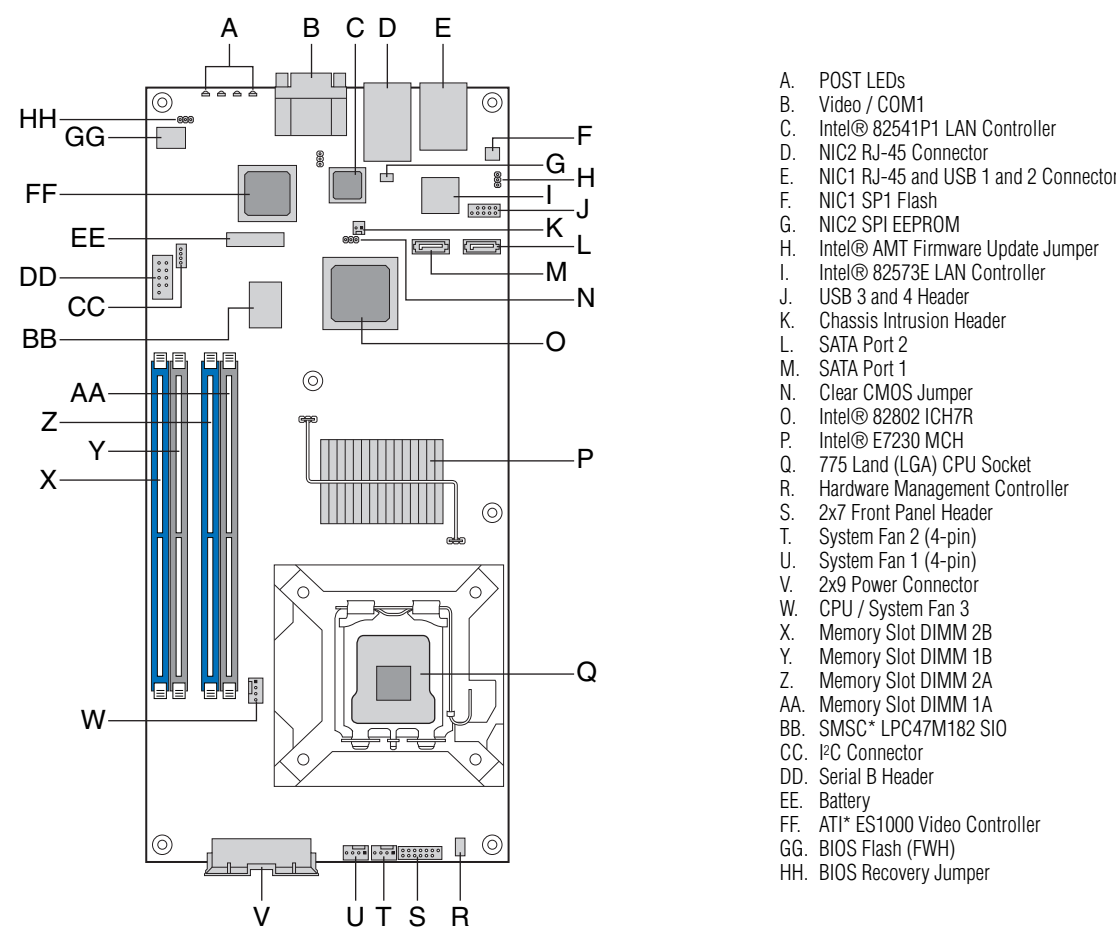
The system does not boot or show video at power-on.

- Check that +12V CPU power connector is plugged in. Without this cable the processor will not have any power.
- Beep code 4-3-2-1 in a system using an Intel® Pentium® 4 Processor (minimum of 2.8 GHz) means you have unrecognized or bad memory.
- Remove and replace DIMMs one bank at a time to isolate which one is causing problems.
- Remember, all DIMMs must be:
 - DDR2 400/533/667 compliant unbuffered, ECC or non-ECC, SPD SDRAM 240-pin gold DIMMs.
 - The same speed.
 - From the same manufacturer.
 - Installed beginning with DIMM 1A.
 - Your power supply must provide a minimum of 300-W 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 300-W power supply.

Component Layout



- A. POST LEDs
- B. Video / COM1
- C. Intel® 82541P1 LAN Controller
- D. NIC2 RJ-45 Connector
- E. NIC1 RJ-45 and USB 1 and 2 Connector
- F. NIC1 SPI Flash
- G. NIC2 SPI EEPROM
- H. Intel® AMT Firmware Update Jumper
- I. Intel® 82573E LAN Controller
- J. USB 3 and 4 Header
- K. Chassis Intrusion Header
- L. SATA Port 2
- M. SATA Port 1
- N. Clear CMOS Jumper
- O. Intel® 82802 ICH7R
- P. Intel® E7230 MCH
- Q. 775 Land (LGA) CPU Socket
- R. Hardware Management Controller
- S. 2x7 Front Panel Header
- T. System Fan 2 (4-pin)
- U. System Fan 1 (4-pin)
- V. 2x9 Power Connector
- W. CPU / System Fan 3
- X. Memory Slot DIMM 2B
- Y. Memory Slot DIMM 1B
- Z. Memory Slot DIMM 2A
- AA. Memory Slot DIMM 1A
- BB. SMC* LPC47M182 SIO
- CC. I/O Connector
- DD. Serial B Header
- EE. Battery
- FF. ATI® ES1000 Video Controller
- GG. BIOS Flash (FWH)
- HH. BIOS Recovery Jumper

Accessories and Order Codes

1U Passive Heatsink (Intel)	AXXBKHS
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Server Board SKUs

10-pack Intel® Entry Server Board SE7230CA1-E (horizontal power connector)	BCAHBB
10-pack Intel® Entry Server Board SE7230CA1-E (vertical power connector)	BCAVBB

Reference Chassis Accessories

1U Rack-mount Chassis (Evercase)	R913-CRT
1U Passive Heatsink for Evercase Chassis	OAK-B