

6 Make Server Board Power Connections

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

Attach the main power connector to the server board.

Main Power Connector Detail

⚠ 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 Cable

Connect SATA data cables to server board here.

Connect Front Control Panel cable here.

8 Connect Chassis Fans

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

System Fan 3 (8-pin)
System Fan 2 (8-pin)
System Fan 1 (8-pin)
Auxiliary Fan (4-pin)

9 Complete Hardware Setup

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

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

AC Power

Network

NIC2 10/100/1000 Mb

NIC1 10/100/1000 Mb

Video

Serial A

USB 1-2

10 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>.

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/s3000PT/>

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 processor will not have any power.
- Beep code 4-3-2-1 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 533/667-MHz 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 200 W with 2 A standby current, which complies with the SSI EPS 12V specification.

The system sometimes works, but is exhibiting erratic behavior:

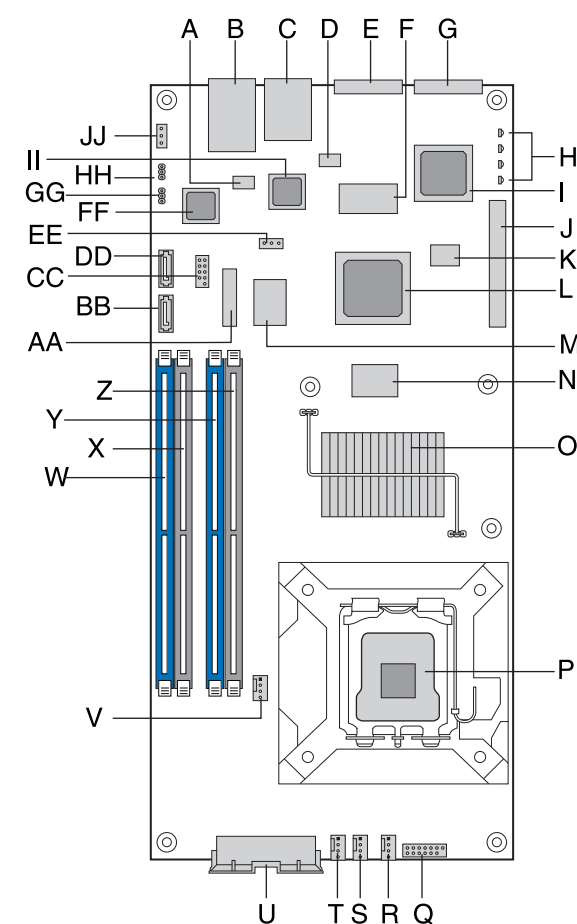
- This is typically the result of using an under-rated power supply. Make sure you are using at least a 200-W power supply.

Accessories and Order Codes	
1U Passive Heatsink (Intel)	AXXUPHS

Server Board SKUs	
10-pack Intel® Server Board S3000PT (horizontal power connector)	BPTHBB
10-pack Intel® Server Board S3000PT (vertical power connector)	BPTVBB

Reference Chassis Accessories	
1U Rack-mount Chassis (Evercase*)	R913-PTS
1U Passive Heatsink (Cooljag*)	OAK-B6

Component Layout



- A. NIC1 SP1 Flash
- B. NIC1 RJ-45 and USB 1 and 2 Connector
- C. NIC2 RJ-45 Connector
- D. NIC2 SP1 EEPROM
- E. Serial A Connector
- F. Video Memory
- G. VGA Connector
- H. POST LEDs
- I. ATI® ES1000 Video Controller
- J. PCI-E x8 Riser Slot
- K. BIOS Flash (SP1)
- L. Intel® 82802 ICH7R Controller Hub
- M. Super I/O (SIO)
- N. Clock Generator
- O. Intel® S3000 Memory Controller Hub (MCH)
- P. 775-Land (LGA) CPU Socket
- Q. 2x7 Front Panel Header
- R. System Fan 3 (8-pin)
- S. System Fan 2 (8-pin)
- T. System Fan 1 (8-pin)
- U. 2x9 Power Connector
- V. Auxiliary Fan (4-pin)
- W. Memory Slot DIMM 2B
- X. Memory Slot DIMM 1B
- Y. Memory Slot DIMM 2A
- Z. Memory Slot DIMM 1A
- AA. Battery
- BB. SATA Port 2
- CC. USB 3 and 4 Header
- DD. SATA Port 1
- EE. Serial B Header
- FF. Intel® 82573E LAN Controller
- GG. Intel® AMT Firmware (NIC1) Update Jumper
- HH. Clear CMOS Jumper
- II. Intel® 82573V LAN Controller
- JJ. SMBus Connector