

### 7 Make Server Board Power Connections

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

**A** Attach the main power connector to the server board.

**B** Attach the CPU power connector as shown.

**IMPORTANT NOTE:** If you are using a non-Intel server chassis with an ATX power supply, see the documentation that came with your chassis for installation information.

### 8 Install Floppy Drive, Optical Drive and Hard Drive(s)

See the documentation that came with your server chassis for drive installation.

For the Intel® Entry Server Chassis SC5295-E, see the Quick Start User's Guide accompanying the chassis.

### 9 Connect Drives/Front Control Panel/External USB to Server Board

Make the following cable connections to the server board as shown:

- A** USB Cable
- B** Floppy Cable
- C** Optical Device Cable
- D** Front Control Cable
- E** Serial ATA (SATA) Cable(s)

Note location of missing pin when aligning connector.

Connect SATA Data Cables to server board here. Begin cable connections at the SATA 0 location.

### 10 Attach Intrusion Switch Cable

### 11 Chassis Fan Connections

For the Intel® Server Chassis SC5295-E, see the Quick Start User's Guide accompanying the chassis for specific system fan connection requirements.

For a non-Intel server chassis, see the "Making Connections ... Quick Reference" section below, and the documentation accompanying your chassis for specific chassis fan connection requirements.

**IMPORTANT NOTE:** Return to your Intel® Server Chassis Quick Start User's Guide, or your non-Intel chassis documentation to finish installation and configuration of your Intel® Server Board S3000AH.

Return to this document to finish up, including software, BIOS, drivers and operating system installation.

### 12 Finishing Up

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

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

**CAUTION:** See your chassis documentation for AC power and grounding requirements.

### 13 Software - BIOS, Drivers, and Operating System Installation

- A. 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/s3000ah>. If new versions are available, update the BIOS on your server. See the User Guide on the Intel® Server Deployment Toolkit 2.0 CD for update instructions.
- B. Configure your RAID Controller:** Use the instructions provided with the RAID controller.
- C. Install your Operating System:** Use the instructions provided with the RAID controller and with the operating system.
- D. Install Operating System Drivers:** With the operating system running, insert the Intel® Server Deployment Toolkit 2.0 CD. If using a Microsoft® Windows® operating system, the Intel® Deployment Assistant will autoun and allow you to select the appropriate drivers to install. On other operating systems, browse the CD folders to locate and install the driver files.
- E. Install Intel® SMaRT Tool (optional):** With the operating system running, insert the Intel® Server Deployment Toolkit 2.0 CD. The Intel® Deployment Assistant will autoun. 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

Accessories and Order Codes	
Intel® Entry Server Chassis SC5295-E with fixed 350W power supply	SC5295UP
Intel® Entry Server Chassis SC5295-E with fixed 350W power supply and North American power cord	SC5295UPNA

A complete list of accessories and spares can be found at: [www.intel.com/go/serverbuilder](http://www.intel.com/go/serverbuilder)

### Making Connections to the Server Board ... Quick Reference

Required Connections for Selected Chassis SC5295-E	
C. +12V CPU Power Connector	■
D. Main Power Connector	■
L. Front Panel Connector	■

■ = Make this connection

CPU/System Fan Connections for Selected Chassis SC5295-E	
A. System Fan 4 Connector	■
B. CPU Fan Connector	■
E. System Fan 2 Connector	■
F. System Fan 1 Connector	■
H. System Fan 3 Connector	■

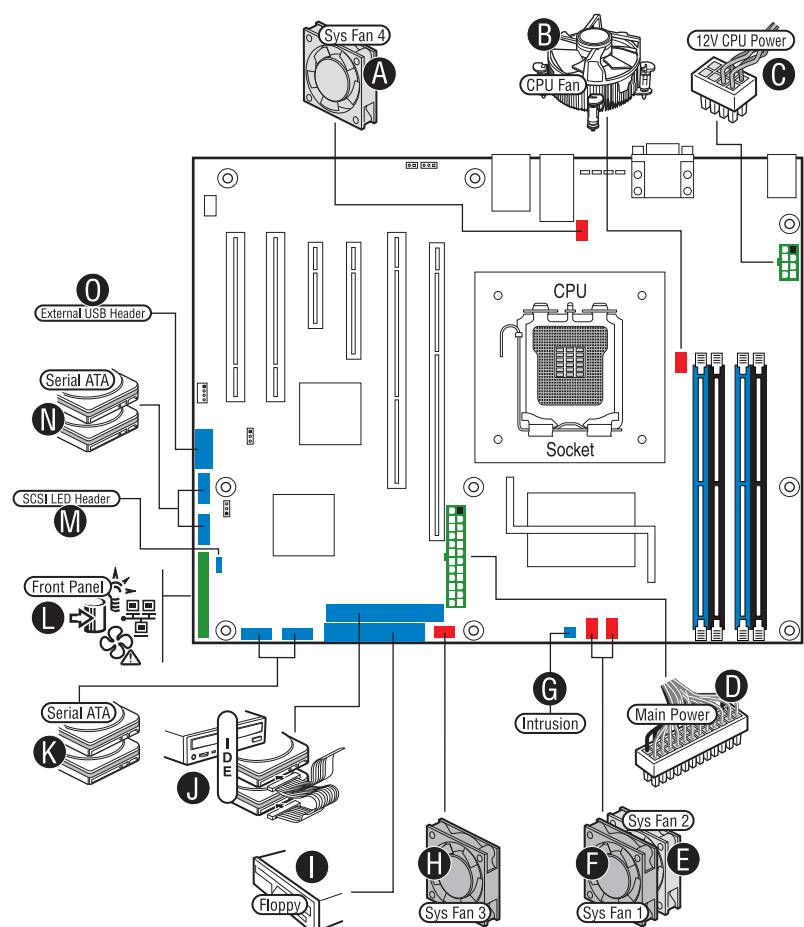
■ = Make this connection

**System Fan Connections:** For a non-Intel server chassis, see the documentation that came with your chassis for fan connection requirements.

Optional Connections for Selected Chassis SC5295-E	
G. Chassis Intrusion	■
I. Floppy Drive Connector	■
J. IDE Connector	■
K. SATA Connectors	■
M. SCSI HDD LED Header	■
N. SATA Connectors	■
O. External USB Header	■

■ = Make this connection

Note: Not all optional connections are shown in this diagram. Refer to your Intel® Server Board S3000AH User Guide, and your server chassis documentation for additional connection information.



### 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/s3000ah>

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.
- Remove and replace DIMMs one bank at a time to isolate which one is causing problems.
- Remember, all DIMMs must be:
  - DDR2 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 350W with 2A standby current, which complies with the SSI EPS 12V specification.
- Please consult the power budget tool on <http://support.intel.com/support/motherboards/server/s3000ah> to determine the power requirement of your system.

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 350W power supply.

### Intel® Server Board S3000AH Component Layout

Note: Not all components, jumpers and connectors are described in this diagram. Refer to your Intel® Server Board S3000AH User Guide on the Intel® Server Deployment Toolkit 2.0 CD for additional information.

