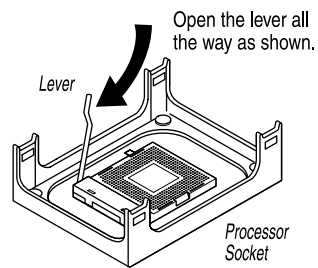


5 Installing the Processor

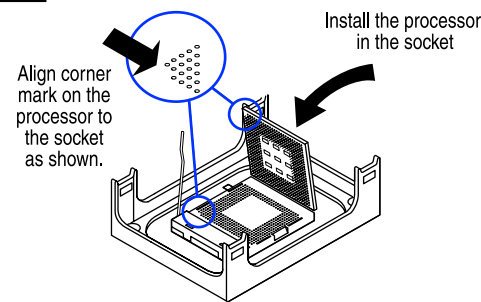
Notes and Cautions:

- When unpacking a processor, hold by the edges only to avoid touching the pins.
- This server board has "zero-insertion force" sockets. If processor does not drop easily into socket holes, make sure lever is in the full-open position and the processor is oriented properly.

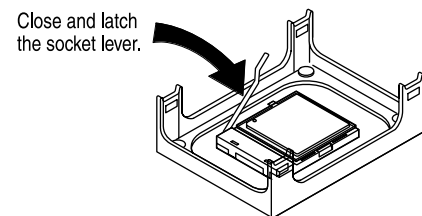
A Open the Socket Lever



B Install the Processor



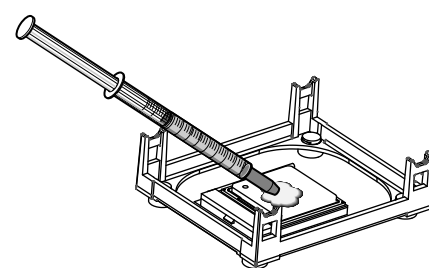
C Close the Socket Lever



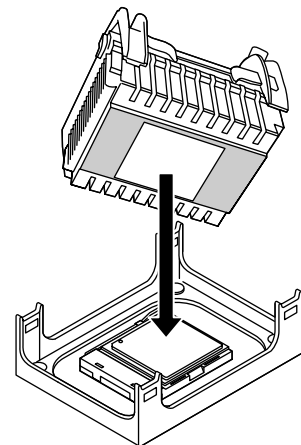
D Install the Heat Sink

Note: The bottom of the heat sink may have thermal interface material (TIM) already applied. If so, disregard step 1 below. Be careful not to damage the thermal interface material.

- If there is no thermal interface material, use the syringe included with your boxed processor to apply the thermal interface material to the top of the processor as shown.

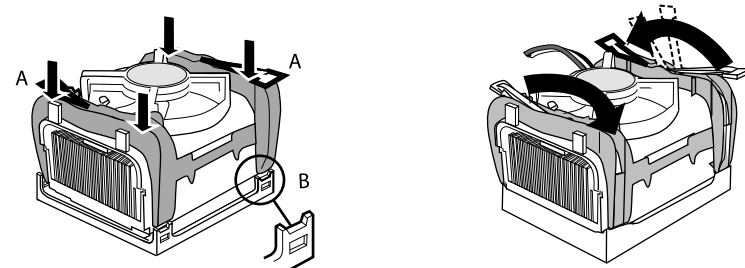


- Place the heat sink on top of the processor.



E Secure the Heat Sink

- With the clip levers on the heatsink assembly in the fully open position ("A" below), push down on the four corners of the clip frame to secure the retention mechanism hooks. ("B" in figure)
- Firmly push the levers closed in the directions shown. It may be necessary to exert pressure to close the levers.



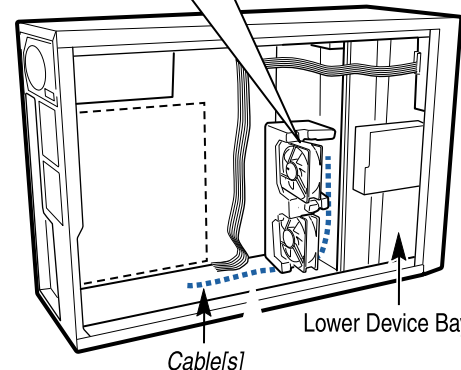
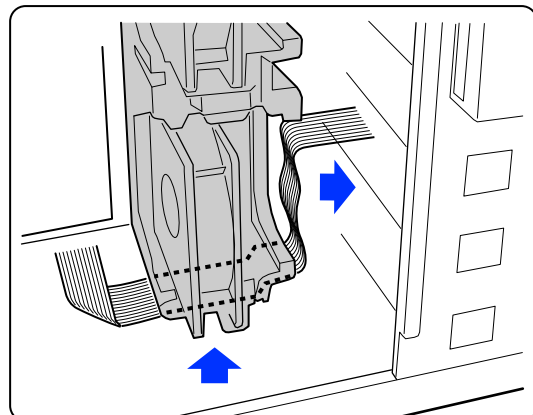
6 Routing the Peripheral Cables

When installing the server board S875WP1-E into the server chassis SC5250-E, route the cables along the sides of the chassis, taking care not to obstruct the airflow from any of the fans.

The cable routing diagram and instructions below are for the Intel Server Chassis SC5200.

Cables that connect to devices in the lower device bays should be routed around the epac as shown.

- Remove the top half of the epac.
- Route cable[s] as shown.
- Replace the top half of the epac.

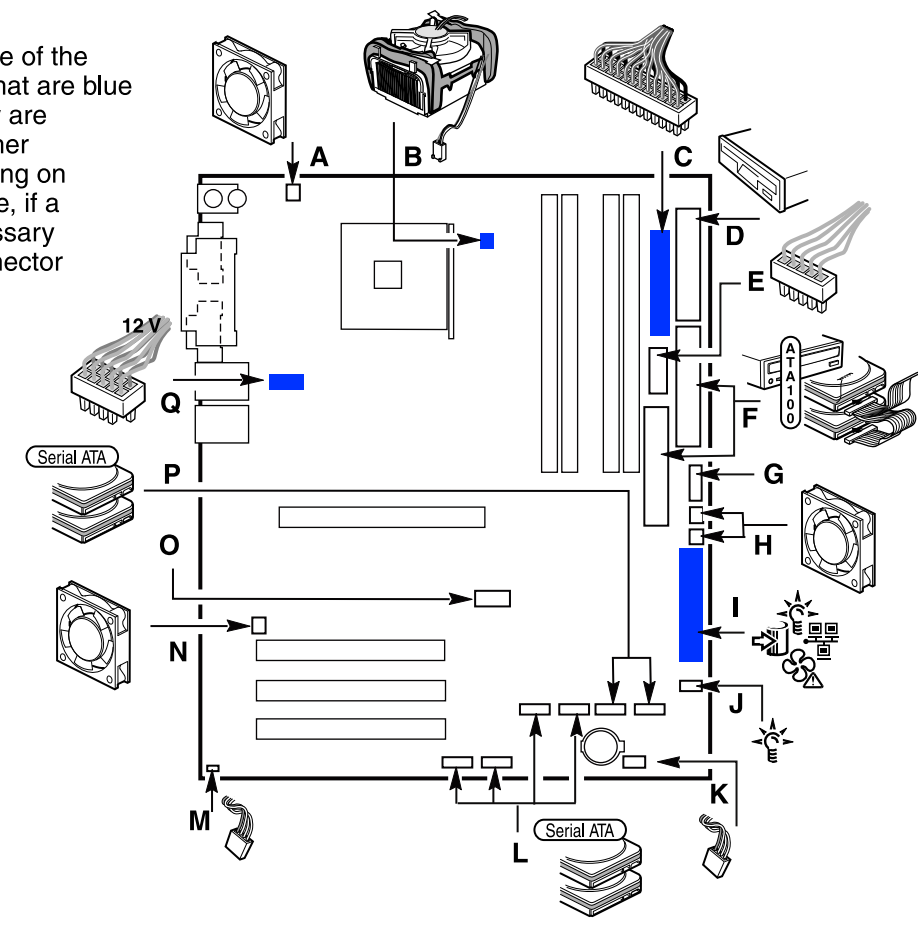


7 Making Connections to the Server Board

Server Board Connection Quick Reference

Make the necessary connections inside of the system. Connections in the diagram that are blue and marked (required) in the list below are necessary to power on the server. Other connections may be required, depending on the components installed. For instance, if a floppy disk drive is installed, it is necessary to connect the floppy cable to the connector marked D in the figure.

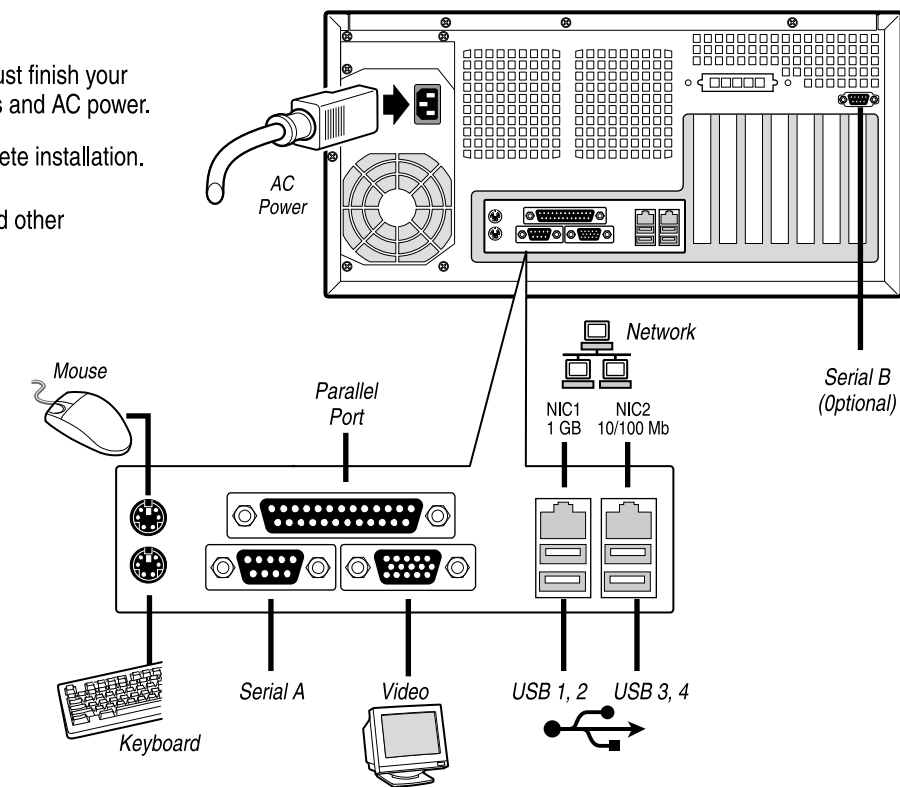
- A. System Fan 4 Header
- B. CPU Fan Header (required)
- C. Main Power Connector (required)
- D. Floppy Connector
- E. Aux Power Connector
- F. Primary IDE Connector (black connector)
- G. Secondary IDE Connector (white connector)
- H. Serial B Header
- I. System Fan 1 Header (top)
- J. System Fan 2 Header (bottom)
- K. Front Panel Connector (required)
- L. SCSI LED Header
- M. Hot-swap Backplane Header
- N. SATA Connectors, SATA-A1 through SATA-A4 from left to right (S875WP1LX only)
- O. Chassis Intrusion Header
- P. System Fan 3 Header
- Q. Front Panel USB Header
- R. SATA Connectors SATA-B1 and SATA-B2 from left to right
- S. +12 V CPU Power Connector (required)



8 Finishing Up

Before installing your operating system, you must finish your chassis installation and connect I/O connectors and AC power.

- See your chassis documentation to complete installation.
- Replace the chassis cover.
- Connect your keyboard, mouse, video, and other I/O cables as shown.
- Connect the AC power cable last.

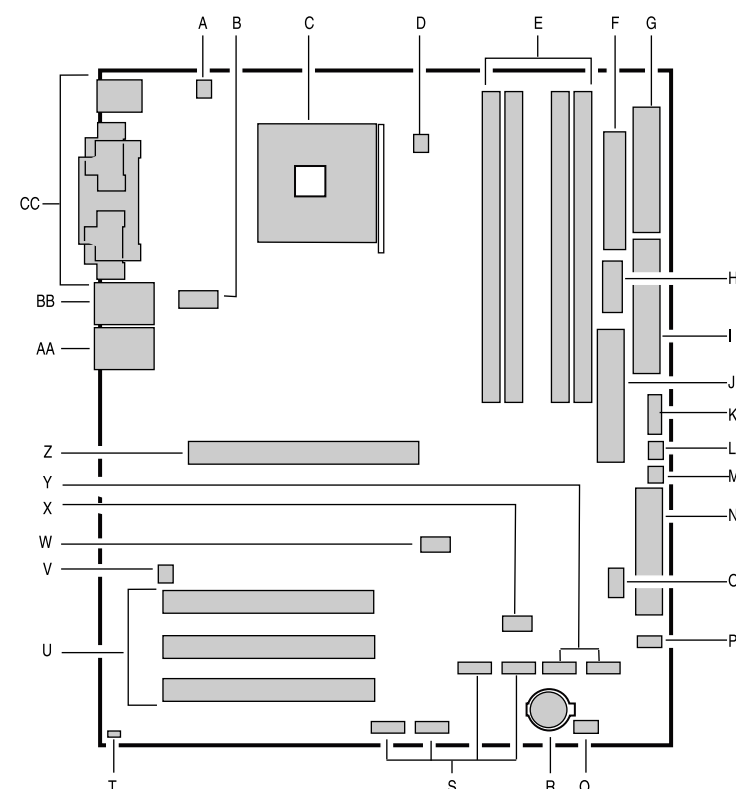


Reference

Server Board Component Layout

Component Descriptions:

- A. System Fan 4 Header
- B. +12V CPU Power Connector
- C. Processor Socket
- D. CPU Fan
- E. DIMM Sockets
- F. Main Power Connector
- G. Floppy Connector
- H. Aux Power Connector
- I. Primary IDE Connector
- J. Secondary IDE Connector
- K. Serial B Header
- L. System Fan 1 Header
- M. System Fan 2 Header
- N. Front Panel Connector
- O. BIOS Configuration Jumper J8J2
- P. SCSI LED Header
- Q. Hot Swap Backplane Header
- R. Battery
- S. SATA-A1 through SATA-A4 Connectors (S875WP1LX only, slots numbered from left to right)
- T. Chassis Intrusion Header
- U. PCI 32/33 slots 1 - 3 (slot one on top)
- V. System Fan 3 Header
- W. Front Panel USB Header
- X. Clear CMOS Jumper J8G1
- Y. SATA-B1 and SATA-B2 Connectors
- Z. AGP Connector
- AA. NIC2 (10/100 Mb)
- BB. NIC1 (1 Gb)
- CC. Back Panel I/O Ports



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/S875WP1-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.
- Remember, all DIMMs must be:
 - Unbuffered DDR266/333/400 compliant
 - The same speed
 - From the same manufacturer
 - Installed beginning with DIMM 1A
 - Installed in the appropriate order. See Step 4 and the server board S875WP1-E Product Guide for instructions.
- Your power supply must provide minimum of 300W with 1.2A standby current.

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 300W power supply.

Accessories and Order Codes

Item	Product Code
Intel® Server Board S875WP1-E (2-Port SATA)	S875WP1
Intel® Server Board S875WP1-E (4-Port SATA)	S875WP1LX
Intel® Server Chassis SC5200 Base Redundant Power	KHD3RP450
Intel® Server Chassis SC5250-E (Beige)	KPTBASE450
Intel® Server Chassis SC5250-E (Black)	KPTBASE450BLK
Intel® Server Chassis SC5200 Rack Conversion Kit	AHD2RACK or AHD3RACK
Intel® Server Chassis Hot-Swap SCSI Drive Bay Upgrade Kit	AXX2HSDRVUG
Intel® Server Chassis Serial ATA Drive Bay Upgrade Kit	ASATAHSDB
Intel® RAID Controller SRCU42L	SRCU42L
Intel® RAID Controller SRCU31L	SRCU31L
Intel® RAID Controller SRCS14L	SRCS14L