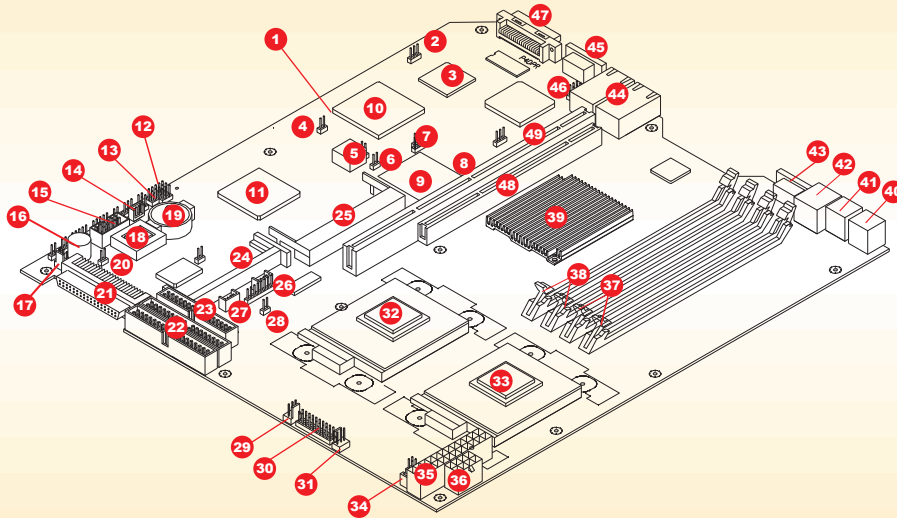


Motherboard Components



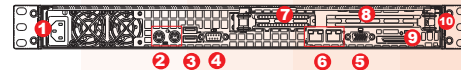
1 System board	18 BIOS	34 JP8: third power supply fail header
2 JD4: LAN2	19 Battery	35 ATX power
3 ATI rage XL graphic chip	20 JP35: keylock header	36 J15: secondary ATX power conn.
4 JPA1 SCSI channel A termination	21 JA1: Ultra160 LVD SCSI CHA conn.	37 Memory bank 2
5 JPA2 SCSI channel B termination	22 IDE#1, IDE# connectors	38 Memory bank 1
6, 7, 8 JP10, JP11, JP12, JP13, JP14, JP15	23 Floppy connector	39 MCH
9 P64H2	24 IPMI connector	40 J28: keyboard
10 Adaptec 7899W chip	25 SCSI RAID port	41 J29: mouse
11 ICH3	26 SMB	42 USB0/1
12 JD1: speaker enable	27 IPMB	43 COM1
13 WOL: Wake-On-LAN header	28 OHLED: overhear LED header	44 LAN2, LAN2
14 WOR: Wake-On-Ring header	29 CPU2 chassis FAN	45 VGA port
15 COM2	30 JF2: front control panel conn.	46 JP3, JP4
16 Speaker	31 CPU1 Chassis FAN	47 Ultra III LVD/SE ChB
17 Chassis fan3	32, 33 CPU#2/CPU#1 sockets	48, 49 PCI-X #2, PCI-X #1

* Note: Interleaved ECC registered memory requires DDR DIMMs to be installed in pairs

P4DPR+ Quick Reference

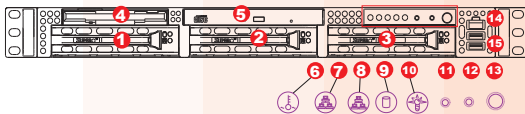
Jumpers	Description	Default Setting
JBT1	CMOS clear	<input type="checkbox"/> Pins 1-2 (Normal)
JD1	Speaker enable (pins 6-7)	Closed (Enabled)
JPA1	SCSI Channel A termination	Open (Terminated)
JPA2	SCSI Channel B termination	Open (Terminated)
JP3	LAN1 enable/disable	Pins 1-2 (Enabled)
JD4	LAN2 enable/disable	Pins 1-2 (Enabled)
JP4	VGA enable/disable	Pins 1-2 (Enabled)
JP22	SCSI enable/disable	Pins 1-2 (Enabled)
JP37/WD	Watchdog enable/disable	Open (Disabled)
JP38	Thermal fan enable/disable	Open (Disabled)
JP48	Chassis/overheat fan select	Closed (Chassis)

Rear Panel Functions



1. AC power connector	
2. PS/2 mouse and keyboard port	
3. 2 USB ports	
4. 2 COM ports (1 internal)	
5. 1 VGA port	
6. 1 Intel Gigabit & 1 Intel 82550 LAN ports	
7. PCI-X 66MHz expansion slot	
8. PCI-X 133MHz expansion slot	
9. External Ultra160 SCSI connector	
10. PCI card release latch	

Front Panel Functions



1. Hot-plug SCSI hard drive, SCSI ID 0
2. Hot-plug SCSI hard drive, SCSI ID 1
3. Hot-plug SCSI hard drive, SCSI ID 2
4. Floppy drive
5. 1 slim CD-ROM drive
6. Overheat: Indicates an overheat condition in the system
7. NIC2: Indicates network activity on LAN2 when flashing
8. NIC1: Indicates network activity on LAN1 when flashing
9. HDD: Indicates IDE channel activity
10. Power: Indicates power is being supplied to the system's power supply units
- 11, 12, 13 Reset, NMI, Power SW
14. Serial port
15. USB ports

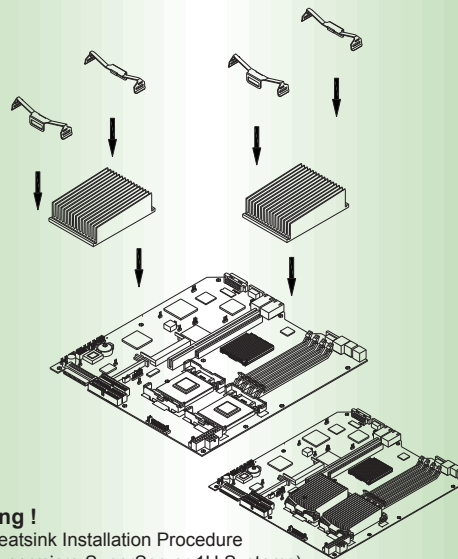
PCI-X Slot#1 Bus Speed Jumper Setting

Max. Freq.	JP14	JP15	JP13
PCI-X 133MHz	OFF	OFF	OFF
PCI-X 100MHz	OFF	ON	OFF
PCI-X 66MHz	OFF	ON	Pin 1-2
PCI 66MHz	OFF	ON	Pin 2-3

PCI-X Slot#2 Bus Speed Jumper Setting

Max. Freq.	JP10	JP11	JP12
PCI-X 66MHz	OFF	ON	Pin 1-2
PCI 66MHz	OFF	ON	Pin 2-3

Cooling Fan Installation



Warning ! CPU Heatsink Installation Procedure (For Supermicro SuperServer 1U Systems)

Due to the fact that adequate air flow and proper thermal control are very critical in maintaining 1U system's stability and performance, it is imperative that the proper installation procedures listed below be followed in order to maximize system performance. This is especially critical for 1U dual Xeon processor server solutions.

- 1) Only those CPU heatsinks that are provided by Supermicro should be used.
- 2) Apply a small amount of silicon compound on the CPU's die.
- 3) Place the CPU heatsink on top of the CPU.
- 4) Attach the heatsink clips to the heatsink retention pieces, one on each side of the heatsink as shown in the diagram at right.
- 5) The three tabs on each heatsink retention pieces should completely protrude through the corresponding holes on the heatsink clips.

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To protect the system and components, it is essential that you reinstall the top panel after you have finished working on the system.