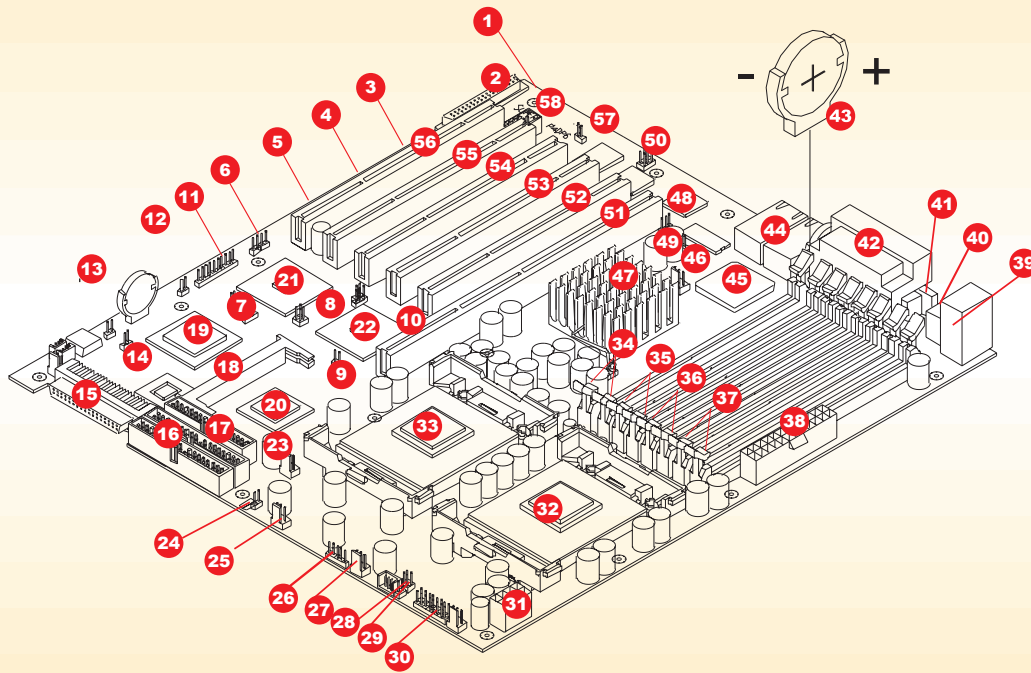


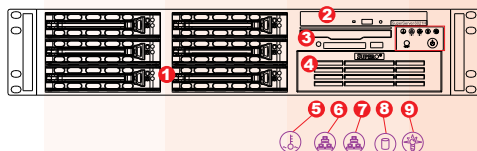
Motherboard Components



1 Super P4DP6 motherboard	21,22 P64H2	43 Battery
2 JA4: Ultra SCSI CH B	23 CPU2 fan	44 LAN1, LAN2 ports
3 JBT1: CMOS clear	24 JL1: chassis intrusion header	45 ATI rage XL graphic chip
4 JWOR: wake-on-ring Header	25 CPU2/chassis fan	46 Overheat fan
5 WOL: wake-on-LAN header	26 USB 4	47 MCH
6,7,8,9,10 JP10-JP21: PCI-X bus speed setting	27 JP33: CPU1/chassis fan	48 JP4: VGA enable/disbale
11 USB2, USB3	28 JP9: third power fail header	49 JP38: thermal fan enable/disbale
12 JP32: ACPI/sleep button header	29 JP36: alarm reset switch	50 JP3 /JP27: LAN1/LAN2 enable/disable
13 JD1: PWR LED/speaker/NMI header	30 JF2: front control panel conn.	51 JP17/Bus 1B (PCI-X 133MHz, slot #6)
14 JPA1: SCSI termination	31 Secondary ATX power conn.	52 JP18/Bus 1A (PCI-X 133MHz, slot #5)
15 JA1: Ultra III LVD SCSI CH A	32, 33 CPU1, CPU2	53 JP19/Bus 2A (PCI-X 100MHz, slot #4)
16 J2A/J3A: IDE#1/IDE#2 drive conn.	34, 35, 36, 37 Bank1, 2, 3, 4	54 JP20/Bus 2B (PCI-X 66MHz, slot #3)
17 JP7: floppy drive conn.	38 ATX power conn.	55 JP21/Bus 2B (PCI-X 66MHz, slot #2)
18 IPMI port	39 Keyboard & mouse	56 JP23/Bus 2B (PCI-X 66MHz, slot #1)
19 Adaptec 7899W SCSI chip	40 USB 0 & USB1	57 JP35: keylock switch conn.
20 ICH3	41, 42 COM1, VGA, parallel port	58 COM2

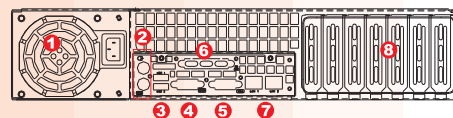
Note: Interleaved ECC registered memory requires DDR DIMMs to be installed in pair.

Front Panel Functions



1. 6 SCA Ultra160 hot-swap drive bays
2. 1 slim CD-ROM drive
3. Floppy Drive
4. 1 x 5.25" drive bay
5. Overheat: Indicates an overheat condition in the system
6. NIC2: Indicates network activity on LAN2 when flashing
7. NIC1: Indicates network activity on LAN1 when flashing
8. HDD: Indicates IDE channel activity
9. Power: Indicates power is being supplied to the system's power supply units

Rear Panel Functions



1. AC power connector
2. PS/2 mouse and keyboard ports
3. 2 USB ports
4. COM 1 port
5. VGA port
6. Parallel port
7. 2 x Intel 82550 LAN ports
8. 7 I/O expansion slots

P4DP6 Quick Reference

Jumpers	Description	Default Setting
JPA1	LVD SCSI Ch A term.	Open (Enabled)
JPA2	LVD SCSI Ch B term.	Open (Enabled)
JBT1	CMOS clear	Pins 1-2 (Normal)
JP9	Power fail alarm en/disable	Open (Disabled)
JD1	Speaker enable/disable	Closed 6-7 (Enabled)
JP3	LAN1 enable/disable	Pins 1-2 (Enabled)
JP27	LAN2 enable/disable	Pins 1-2 (Enabled)
JP22	SCSI enable/disable	Pins 1-2 (Enabled)
JP38	Thermal fan enable/disable	Open (BIOS control)
JP4	VGA enable/disable	Pins 1-2 (Enabled)
JP33	CPU chassis/CPU fan select	Close (CPU Fan)

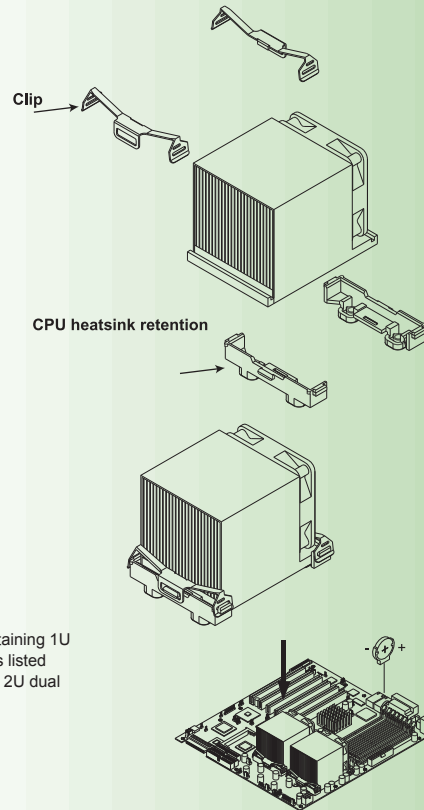
Cooling Fan Installation

Warning !

CPU Heatsink Installation Procedure
(For Supermicro SuperServer 2U 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 2U 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.



SUPERMICRO[®]
www.supermicro.com

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