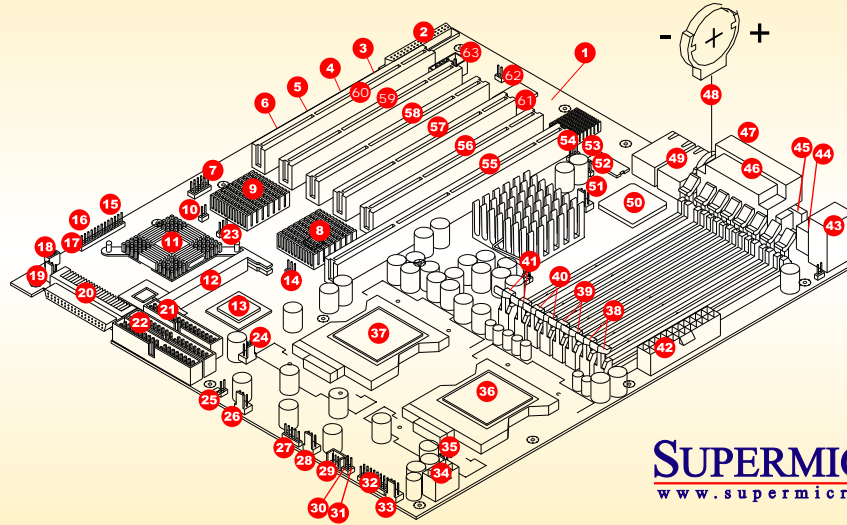


# SuperServer 6023P-8 Motherboard Components



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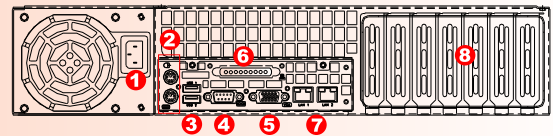
1 Super X5DP8-G2 Serverboard	22 IDE#1, IDE#2 connector	43 Keyboard & mouse
2 JA4: Ultra SCSI CHB	23 JP22: SCSI enable/disable	44 USB 0/1
3 JBT1: CMOS clear	24 CPU fan 2	45 COM1
4 JWOR: Wake-on-Ring header	25 JL1: Chassis intrusion header	46 Parallel port
5 WOL: Wake-on-LAN header	26 Chassis fan 2	47 VGA port
6 Speaker	27 USB 4 header	48 Battery
7 USB2/3 header	28 Chassis fan 3	49 Gigabit LAN 1/LAN 2
8 P64H2 chip	29 JP8: Third power supply fail header	50 ATI Rage XL SVGA chip
9 P64H2 chip	30 JP36: Alarm reset switch	51 Overheat fan
10 JPA2: SCSI CH B termination	31 JP9: Power fail alarm En/Disable	52 JOH1: Overheat LED
11 AIC-7902W SCSI chip	32 JF2: Front control panel connector	53 JP38: Thermal fan en/disable
12 IPMI socket	33 Chassis fan 4	54 JP4: VGA Enable/Disable
13 ICH3	34 J15: Secondary ATX power connector	55 133MHz PCI-X #6
14 JP39: Front side bus speed	35 CPU fan 1	56 133MHz PCI-X #5
15 JD1: PWR LED/SPKR/NMI/WD	36 CPU#1 socket	57 100MHz PCI-X #4
16 JP37: Watch dog	37 CPU#2 socket	58 66MHz PCI-X #3
17 JPA1: SCSI CH A termination	38 Bank #1	59 66MHz PCI-X #2
18 SMB	39 Bank #2	60 66MHz PCI-X #1
19 Chassis fan1	40 Bank #3	61 JD4: Gigabit LAN Enable/Disable
20 JA1: Ultra III LVD SCSI CH A	41 Bank #4	62 JP35: Keylock switch connector
21 Floppy conn.	42 ATX PWR connector	63 COM2

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

## X5DP8-G2 Quick Reference

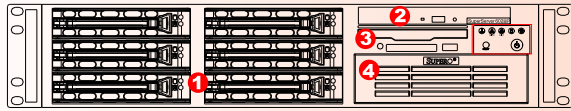
Jumpers	Description	Default Setting
JPA1/2	SCSI channel A/B term.	Open (Enabled)
JD4	Gigabit LAN Enable/Disable	Pins 1-2 (Enabled)
JBT1	CMOS clear	Pad
JP39	Front side bus speed	
JP38	Thermal fan enable/disable	Open (BIOS control)
JP4	VGA enable/disable	Pins 1-2 (Enabled)
JP9	Power fail alarm En/Dis	Open (Disabled)
JP22	SCSI enable/disable	Pins 1-2 (Enabled)
JP37	Watch dog enable/disable	Open (Disabled)

## Rear Panel Functions



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

## Front Panel Functions



1. 6 SCA Ultra320 hot-swap drive bays
2. 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

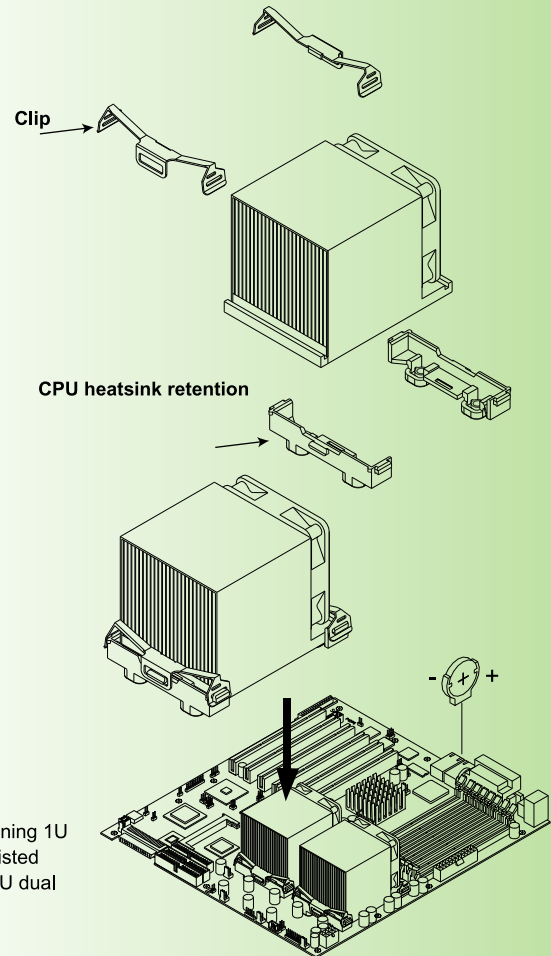
## Cooling Fan Installation

### 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.



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