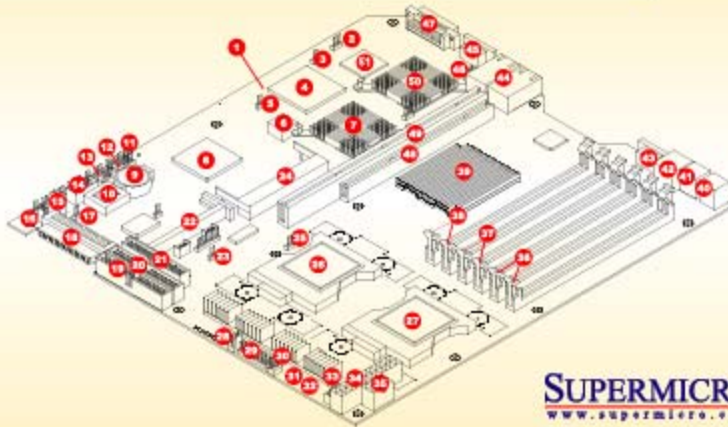


## SuperServer 6013P-8 Serverboard Components



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|  |  |   |
|--|--|---|
| 1 X5DPR-8G2+ Serverboard                     | 17 JP35: Keylock header                | 34 ATX Power conn.                        |
| 2 JD4:LAN1/LAN2 Enable/Disable               | 18 Ultra III LVD/SE CH A               | 35 J15: Secondary ATX power conn.         |
| 3 SCSI Enable/Disable                        | 19, 20 IDE#1, IDE#2                    | 36, 37, 38 Memory bank 1, bank 2, bank 3  |
| 4 Adaptec 7902 SCSI chip                     | 21 Floppy connector                    | 39 MCH                                    |
| 5, 6 JPA1/JPA2: SCSI channel A/B Termination | 22 IPMI socket                         | 40 J28: Keyboard                          |
| 7 P64H2                                      | 23 Overheat LED                        | 41 J29: Mouse                             |
| 8 ICH3                                       | 24 Zero channel RAID socket            | 42 USB 0/1                                |
| 9 Battery                                    | 25 JP38: Front Side Bus speed          | 43 COM1                                   |
| 10 BIOS                                      | 26, 27 CPU 1, CPU 2                    | 44 Gigabit LAN 1 & LAN2                   |
| 11 JD1: JBT1/WD/IR/CI/R/USB2/PWRLED/SPKR     | 28 CPU2 chassis fan                    | 45 VGA display port                       |
| 12 WOR: Wake-on-Ring header                  | 29 JF2: Front control panel connector  | 46 JP4: VGA Enable/Disable                |
| 13 WOL: Wake-on-LAN header                   | 30 CPU1 chassis fan                    | 47 Ultra III LVD/SE CH B                  |
| 14 COM2                                      | 31 JP36: Alarm reset switch            | 48, 49 Slim PCI-X & PCI-X slot            |
| 15 Speaker                                   | 32 JP9: Power fail alarm En/Disable    | 50 Intel 62546 Gigabit controller         |
| 16 Chassis fan 3                             | 33 JP8: Third power supply fail header | 51 ATI Rage XL 8MB PCI graphic controller |

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

## X5DPR-8G2+ Quik Reference

| Jumpers | Description                 | Default Setting    |
|---------|-----------------------------|--------------------|
| JBT1    | CMOS clear                  | Pad                |
| JD1     | Speaker enable (pins 6-7)   | Closed (Enabled)   |
| JPA1    | SCSI Channel A termination  | Open (Terminated)  |
| JPA2    | SCSI Channel B termination  | Open (Terminated)  |
| JD4     | LAN1/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    | Front Side Bus Speed        | Pins 1-2 (Auto)    |
| JP9     | Power Fail Alarm En/Disable | Open (Disabled)    |

## 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. 2 Gigabit LAN ports
7. 1 Low-profile PCI-X/PCI expansion slot
8. 1 Standard PCI-X/PCI expansion slot
9. External Ultra320/160 SCSI connector
10. PCI-X/PCI card release latch

## Front Panel Functions

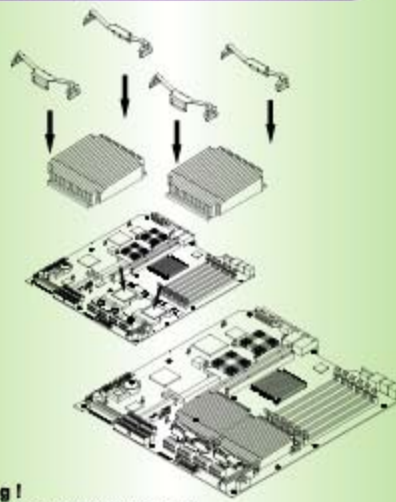


1. Hot-plug SCSI hard drive, SCSI ID 0
2. Hot-plug SCSI hard drive, SCSI ID 1
3. Hot-plug SCSI hard drive, SCSI ID 2
4. 1 Floppy drive
5. 1 Slim CD-ROM drive
6. Overheat: Indicates an overheat condition in the system
7. N/C2: Indicates network activity on LAN2 when flashing
8. N/C1: Indicates network 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



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

## 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.