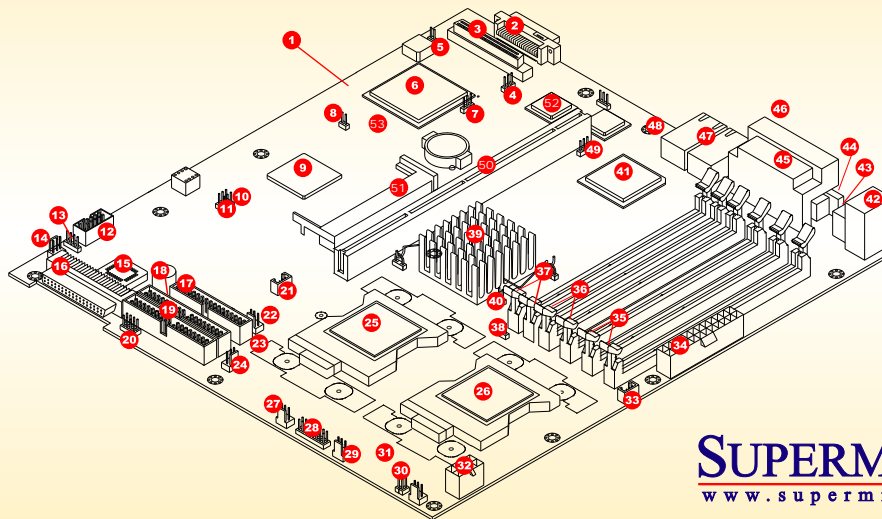


6023L-8R Serverboard Components

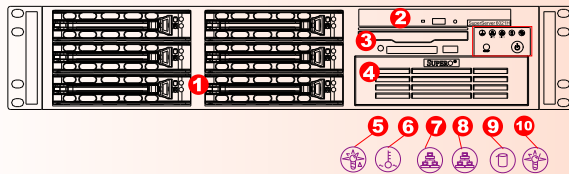


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1 X5DLR-8G2 Serverboard	19 J19: IDE#2, IDE#1	37 Bank 0B/0A
2 JA5: Ultra III LVD/SE ChB	20 USB 2/3	38 JP12: System bus speed
3 JA1: Ultra III LVD/SE ChB	21 J21: SMB header	39 North bridge
4 JP56: VGA enable/disable	22 CPU2 fan	40 J35: Spread spectrum
5 JPA1: SCSI channel A termination	23 JP58: Fan detection select	41 CIOB-E chip
6 AIC-7902 SCSI chip	24 CPU2/Chassis fan	42 J11: Keyboard/mouse
7 JA4: SCSI enable/disable	25 CPU2 socket	43 USB 0/1 port
8 JPA2: SCSI channel B termination	26 CPU1 socket	44 J66: COM1 port
9 South bridge	27 CPU1 fan	45 Printer port
10 JBT1: CMOS clear	28 JF1: Front control panel connector	46 VGA port
11 JP3: Watch dog	29 CPU1/Chassis fan	47 Gigabit LAN1/2
12 COM2	30 JP48: Chassis/overheat fan select	48 D1-D8: Debug LEDs
13 JP57: Chassis Intrusion Header	31 OH/chassis Fan	49 P2: PCI-X speed settings
14 Chassis fan	32 J56: Processor power connector	50 PCI-X slot
15 BIOS	33 JP46: Third power supply fail header	51 SCSI RAID socket
16 JA2: Ultra III LVD/SE ChA	34 ATX power conn.	52 ATI Rage XL SVGA chip
17 J12: Floppy conn.	35 Bank 2B/2A	53 Battery
18 JP2: Speaker	36 Bank 1B/1A	

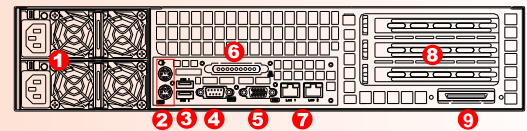
Note: Interleaved ECC registered memory requires DDR DIMMs to be installed in pair.

Front Panel Functions



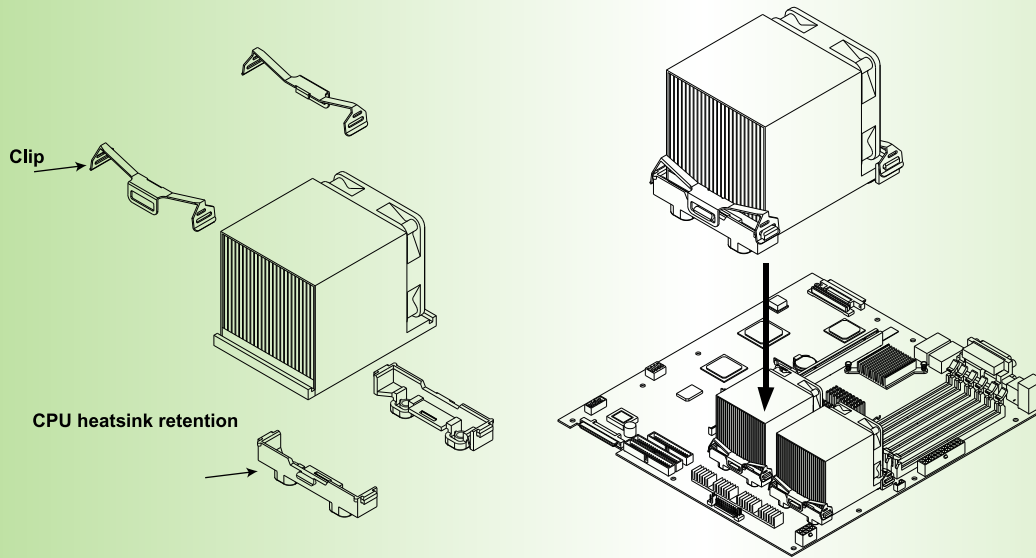
- 6 SCA Ultra320 hot-swap drive bays
- Slim CD-ROM drive
- Floppy Drive
- 1 x 5.25" drive bay
- Power Fail: Indicates a power supply module has failed.
- Overheat: Indicates an overheat condition in the system
- NIC2: Indicates network activity on LAN2 when flashing
- NIC1: Indicates network activity on LAN1 when flashing
- HDD: Indicates IDE channel drive activity
- Power: Indicates power is being supplied to the system's power supply units

Rear Panel Functions



- AC power connectors
- PS/2 mouse and keyboard ports
- 2 USB ports
- COM port
- VGA port
- Parallel port
- 2 Gigabit LAN ports
- 3 I/O expansion slots
- External SCSI port

Cooling Fan Installation



Warning!

CPU Heatsink Installation Procedures (For Supermicro SuperServer 2U Systems)

Due to the fact that adequate air flow and proper thermal control are very critical in maintaining 2U 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

Note: Please note that special, new silver heatsink retention clips must be used with all Xeon 533MHz FSB (front side bus) 604-pin processors. These new retention clips have "604P" clearly marked on them. Using the old clips will not keep the proper amount of pressure applied and may cause the processor to overheat. You should not use these new retention clips with 400MHz FSB processors (even if the CPU socket is 604-pin) as they will be too tight and damage the CPU socket.

X5DLR-8G2 Quick Reference

Jumpers	Description	Default Setting
J35	Spread Spectrum	Open (Disabled)
JA4	SCSI Enable/Disable	Pins 1-2 (Enabled)
JBT1	CMOS Clear	Pad
JP2	Speaker Enable/Disable	Close (Enabled)
JP3	Watch Dog	Pins 2-3 (NMI)
JP12	System Bus Speed	Pins 1-2 (Auto)
JP48	Chassis/Overheat Fan Select	Open (Overheat)
JP56	VGA Enable/Disable	Pins 1-2 (Enabled)
JP58	Fan Detection Select	Open (CPU Fan)
JPA1/A2	SCSI Channel A/B Termination	Open (Terminated)



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