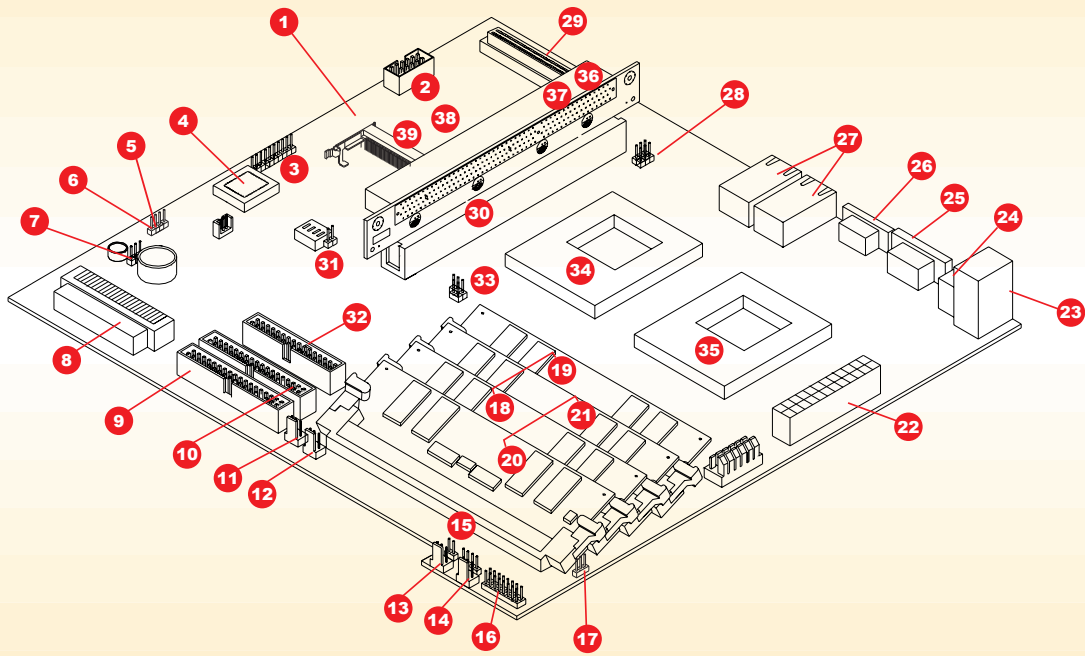


Motherboard Components



1 System board	14 Chassis fan	28 JP68
2 COM2 header	15 JP65 THRM fan	29 Ultra160 LVD SCSI Ch B
3 JA2, JA4 SCSI termination	16 JF1 control panel header	30 PCI riser card
4 BIOS chip	17 JP72	31 SW1
5 JP73	18,19 * Bank 0 memory modules	32 Floppy connector
6 JP56	20, 21 * Bank 1 memory modules	33 JP1, JP3 header
7 JBT1	22 Primary power connector	34 CPU#2 socket
8 Ultra160 LVD SCSI Ch A	23 Mouse and keyboard ports	35 CPU#1 socket
9, 10 IDE #1, IDE#2 connector	24 2 USB ports	36 JP58
11 Chassis fan	25 COM1 header	37 JP62
12 CPU2 chassis fan	26 VGA header	38 JP64
13 CPU1 chassis fan	27 LAN1, LAN2	39 RAID port

* Note: Interleaved ECC registered memory type must be installed in pairs: slots 18 + 19 and 20 + 21.

P3TDER+ Quick Reference

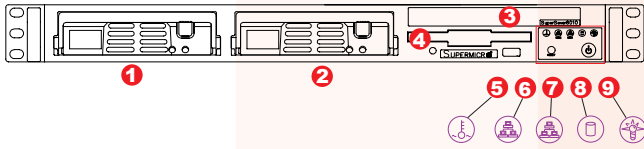
Jumpers	Description	Default Setting
JA2	LVD SCSI Ch A term.	Open (Enabled)
JA4	LVD SCSI Ch B term.	Open (Enabled)
JBT1	CMOS clear	Pins 1-2 (Normal)
JP1	FSB speed setting	Pins 1-2 (Auto)
JP3	Spread spectrum	Open (Disabled)
JP56	Speaker enable/disable	Closed (Enabled)
JP58	LAN1 enable/disable	Pins 1-2 (Enabled)
JP62	LAN2 enable/disable	Pins 1-2 (Enabled)
JP64	SCSI enable/disable	Pins 1-2 (Enabled)
JP65	Thermal fan enable/disable	Closed (Enabled)
JP68	VGA enable/disable	Pins 1-2 (Enabled)
JP72	CPU/CPU chassis fan select	Open (Chassis Fan)
JP73	Watchdog enable/disable	Open (Disabled)

CPU Core/Bus Ratio Selection (DIP Switch 1)

CPU Core/Bus Ratio**	SW1 #4	SW1 #3	SW1 #2	SW1 #1
500-666	ON	OFF	OFF	ON
555-733	ON	OFF	OFF	OFF
600-800	OFF	ON	ON	ON
650-866	OFF	ON	ON	OFF
700-933	OFF	ON	OFF	ON
750-1000	OFF	ON	OFF	OFF
800-1064	OFF	OFF	ON	ON
850-1130	ON	ON	OFF	ON
900-1200	ON	ON	OFF	OFF
950-1260	ON	ON	ON	OFF
1000-1330	OFF	OFF	ON	OFF
1050-1400	ON	OFF	ON	ON

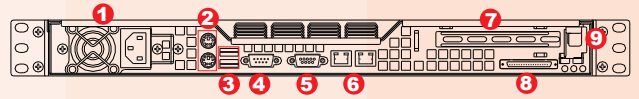
** Number on left is for 100 MHz FSB speed and number on right is for 133 MHz FSB speed

Front Panel Functions



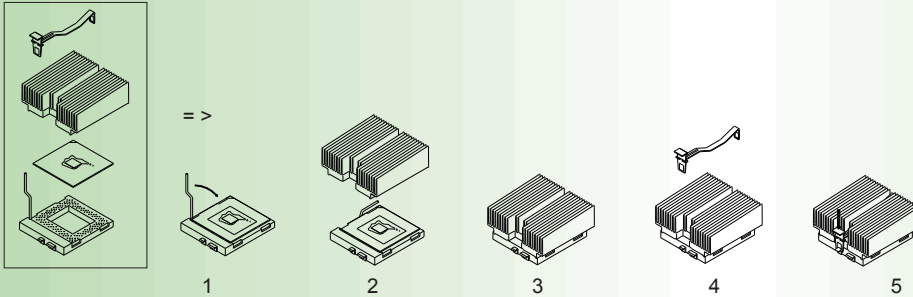
1. Hot-plug SCSI hard drive, SCSI ID 0
2. Hot-plug SCSI hard drive, SCSI ID 1
3. 1 slim CD-ROM drive
4. Floppy drive
5. Overheat: Indicates an overheat condition in the system
6. NIC2: Indicates network activity on LAN2 when flashing
7. NIC1: Indicates network activity on LAN1 when flashing
8. HDD: Indicates 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 port
3. 2 USB ports
4. 2 COM ports (1 internal)
5. 1 VGA port
6. 2 x Intel 82550 LAN ports
7. 64/32-bit Expansion slot
8. External Ultra160 SCSI connector
9. PCI card release latch

Cooling Fan Installation



- 1) Only those CPU heatsinks that are provided by Supermicro should be used.
- 2) Apply proper amount of silicon compound on the CPU die.
- 3) Place the CPU heatsink on top of the CPU.
- 4) Place the heatsink spring on top of the CPU heatsink and lock the backside of the spring into its notch.
- 5) Lock the front side of the heatsink spring into its notch.

Warning !

CPU Heatsink Installation Procedures (For Supermicro SuperServer 1U Systems)

Due to the fact that adequate air flow and proper thermal control are very critical in maintaining 1U system stability and performance, it is imperative that the proper installation procedures listed on the left be followed in order to maximize system performance. This is especially critical for 1U Dual Processor Servers with CPU speeds of 1 GHz and above.

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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.