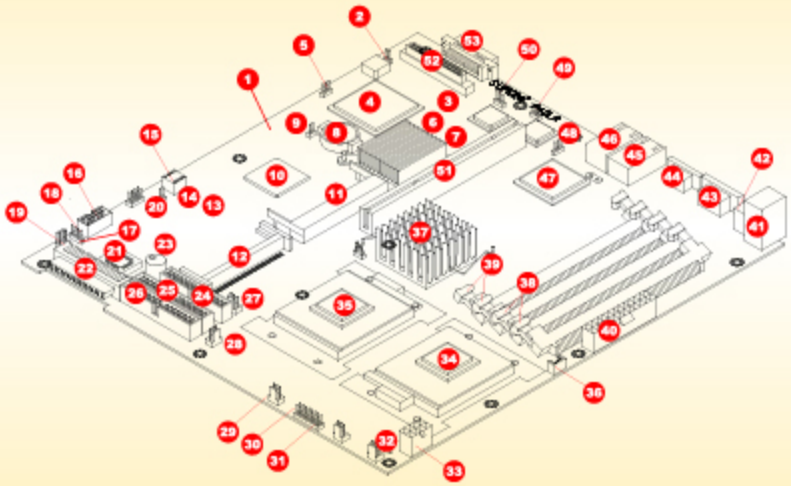
Motherboard Components



1	Super P4DLR+ motherboard	18	J10: sleep button header	34, 35	CPU1, CPU2
2	JPA1: SCSI channel B Termination	19	Chassis fan	36	JP46: Third power supply fail header
3	WOL: wake-on-LAN header	20	USB 3, 4	37	North bridge
4	Adaptec 7899W SCSI chip	21	BIOS	38, 39	Bank 1, 2
5	JA4: SCSI enable/disable	22	JA2: Ultra III LVD/SE ch A	40	ATX power conn.
6, 7	JP4, P2 PCI-X bus speed setting	23	JP2: speaker enable/disable	41	keyboard/mouse
8	Battery	24	Floppy	42	USB 0/1 ports
9	JPA1: SCSI channel A Termination	25	IDE#1	43	COM1 port
10	South bridge	26	IDE#2	44	VGA port
11	SCSI RAID port	27	CPU2 fan	45, 46	LAN 2, 1 ports
12	IPMI port	28	JP58: CPU/chassis fan select	47	ATI rage XL graphic chip
13	JBT1: CMOS clear	29	CPU1 fan	48	JP56: VGA enable/disable
14	JP3: watch dog	30	JF1: front control panel conn.	49	JP55: LAN 2 enable/disable
15	SW4	31	CPU1/chassis fan	50	JP54: LAN 1 enable/disable
16	COM2	32	Overheat/chassis fan	51	PCI-X slot
17	JP57: chassis intrusion header	33	Secondary ATX power conn.	52, 53	JA1, JA5 Ultra III LVD/SE ch B

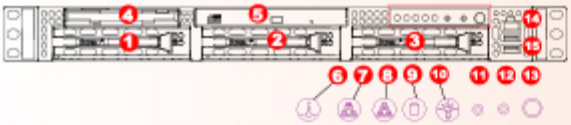
P4DLR+ Quick Reference

Jumpers	Description	Default Setting
JPA1	SCSI channel B term.	Open (Enabled)
JPA2	SCSI channel A term.	Open (Enabled)
JBT1	CMOS clear	Pins 1-2 (Normal)
JP3	Watch Dog en/disable	Open (Disabled)
JP48	Chassis/overheat fan select	Open (overheat)
JP2	Speaker enable/disable	Closed (Enabled)
JP54	LAN1 enable/disable	Pins 1-2 (Enabled)
JP55	LAN2 enable/disable	Pins 1-2 (Enabled)
JP56	VGA enable/disable	Pins 1-2 (Enabled)
JP58	CPU/chassis fan select	Open (CPU)
JA4	SCSI enable/disable	Pins 1-2 (Enabled)
JPA1	SCSI channel B termination	Open (terminated)
JPA2	SCSI channel A termination	Open (terminated)
JP4	33 MHz PCI Force	Open (Disabled)

PCI-X Bus Speed Jumper Setting Pin Definitions (P2, JP4)

P2	JP4	Protocol	Max. Freq.
Pins 1-2	Closed	PCI	33MHz
Pins 1-2	Open	PCI	66MHz
Pins 2-3	Either (n/a)	PCI-X	66MHz
Pins 3-4	Either (n/a)	PCI-X	100MHz
Pins 4-5	Either (n/a)	PCI-X	133MHz

Front Panel Functions



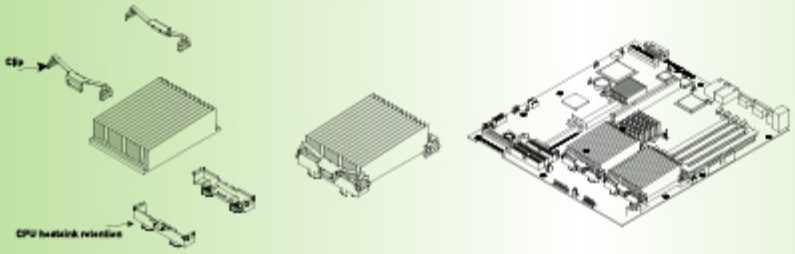
1, 2, 3 Hot-plug SCSI hard drive, SCSI ID 0, 1, 2

4. Floppy drive
5. 1 slim CD-ROM drive
6. Overheat: Indicates an overheat condition in the system
7. NIC2: Indicates network activity on LAN2 when flashing
8. NIC1: 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

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 Intel 82550 LAN ports
7. PCI-X 133MHz 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 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

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'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.

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.