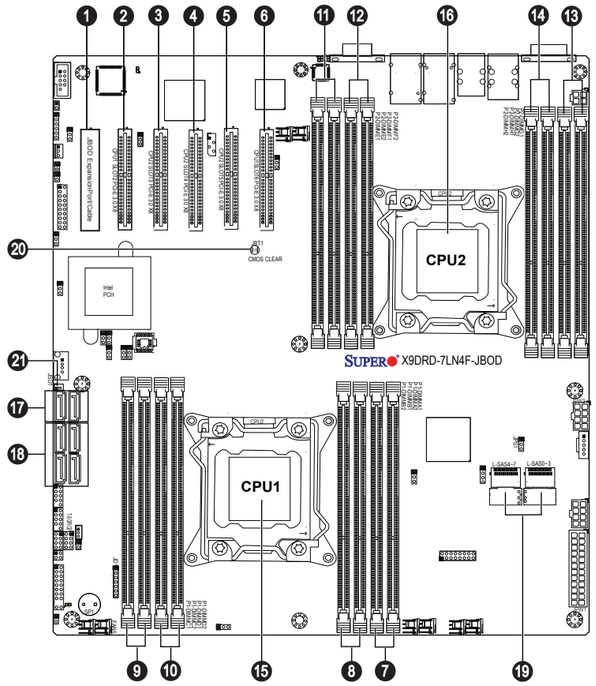
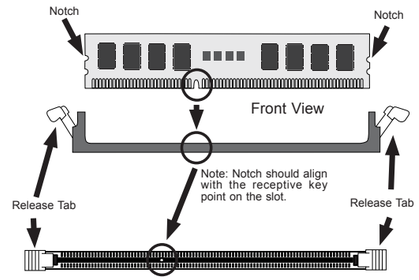
SUPERMICRO® SuperStorage L-Series Quick Reference Guide

Board Layout



No.	Description
1	JBOD Expansion Port/Cable
2	CPU1 Slot2 PCI-E 3.0 x8
3	CPU2 Slot3 PCI-E 3.0 x8
4	CPU2 Slot4 PCI-E 3.0 x8
5	CPU2 Slot5 PCI-E 3.0 x8
6	CPU1 Slot6 PCI-E 3.0 x8
7	P1-DIMMA1(Blue)/P1-DIMMA2 slot
8	P1-DIMMB1 (Blue)/P1-DIMMB2 slot
9	P1-DIMMC1 (Blue)/P1-DIMMC2 slot
10	P1-DIMMD1 (Blue)/P1-DIMMD2 slot
11	P2-DIMME1 (Blue)/P2-DIMME2 slot
12	P2-DIMMF1 (Blue)/P2-DIMM F2 slot
13	P2-DIMMG1 (Blue)/P2-DIMM G2 slot
14	P2-DIMMH1 (Blue)/P2-DIMM H2 slot
15	CPU1 / P1 install first / minimum requirement
16	CPU2/P2
17	SATA 3 Ports 0~1 (from Intel PCH)
18	SATA 2 Ports 2~5 (from Intel PCH)
19	SAS 2.0 ports 0~3, 4~7 (from LSI SAS 2308 Controller)
20	JBT1 = CMOS Reset
21	SATA DOM Power

MEMORY



Top View of DDR3 Slot

DIMM Module Population Tables

Processors and their Corresponding Memory Slots												
CPU#	Corresponding Memory Slot											
CPU 1 (P1-)	A1	B1	C1	D1	A2	B2	C2	D2	A3	B3	C3	D3
CPU2 (P2-)	E1	F1	G1	H1	E2	F2	G2	H2	E3	F3	G3	H3

Processor and Memory Module Population	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please install DIMMs as shown below.)
1 CPU & 3 DIMMs	CPU1 P1-A1/P1-B1/P1-C1
1 CPU & 6 DIMMs	CPU1 P1-A1/P1-B1/P1-C1/P1-D1/P1-A2/P1-B2
1 CPU & 9 DIMMs	CPU1 P1-A1/P1-B1/P1-C1/P1-D1/P1-A2/P1-B2/P1-C2/P1-D2/P1-A3
1 CPU & 12 DIMMs	CPU1 P1-A1/P1-B1/P1-C1/P1-D1/P1-A2/P1-B2/P1-C2/P1-D2/P1-A3/P1-B3/P1-C3/P1-D3
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1 P2-E1/P2-F1/P2-G1
2 CPUs & 12 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1/P1-D1/P1-A2/P1-B2 P2-E1/P2-F1/P2-G1/P2-H1/P2-E2/P2-F2
2 CPUs & 16 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1/P1-D1/P1-A2/P1-B2/P1-C2/P1-D2 P2-E1/P2-F1/P2-G1/P2-H1/P2-E2/P2-F2/P2-G2/P2-H2
2 CPUs & 18 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1/P1-D1/P1-A2/P1-B2/P1-C2/P1-D2/P1-A3 P2-E1/P2-F1/P2-G1/P2-H1/P2-E2/P2-F2/P2-G2/P2-H2/P2-E3
2 CPUs & 24 DIMMs	CPU1/CPU2 P1-A1/P1-B1/P1-C1/P1-D1/P1-A2/P1-B2/P1-C2/P1-D2/P1-A3/P1-B3/P1-C3/P1-D3 P2-E1/P2-F1/P2-G1/P2-H1/P2-E2/P2-F2/P2-G2/P2-H2/P2-E3/P2-F3/P2-G3/P2-H3

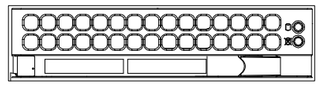
Please refer to the user manual for more details on memory types, speeds and configurations

Chassis Front Panel LED Indicator Definition

Component	State/Indication
Power	Solid Green/Power is On
Onboard SATA	Flash Green/Onboard SAS/SATA Drive Activity
LAN1	Flash Green/Network Connectivity
LAN2	Flash Green/Network Connectivity
Temperature/Fan	Flash Red/Fan Failure; Solid Red/Over Temperature
Power Failure	Flash Red/Power Supply Failure

LED Indicator

3.5" Drive Module



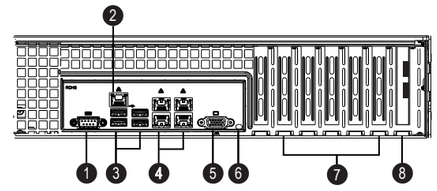
2.5" Drive Module

Blue/Activity
Red/Status

Drive RED LED Indicator

LED State	Indication
OFF	Normal Operation
Solid ON	Drive Failure
Slow Blink (1 Hz)	Rebuilding to Drive
2 Fast Blink, Pause (repeats)	Drive Assigned as a Hot Spare
Fast Blink (4 Hz)	Slot Identify command has been issued from controller

Rear View



No.	Description
1	COM Port1
2	Dedicated IPMI LAN
3	USB 0/1/2/3 Ports
4	LAN 1/2/3/4 Ports
5	VGA Port
6	UID Button
7	Up to 5x open PCI-E expansion slots*
8	Dual JBOD Expansion port**

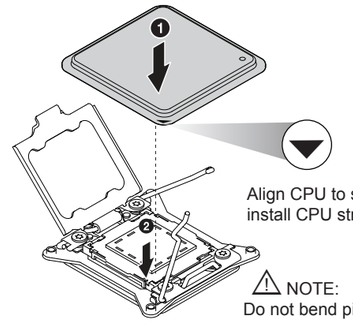
*Low profile PCI slots shown, models: SSG-6037R-E1R16L & SSG-6046R-E1R24L feature full height half length expansion slots

**SSG-6027R-E1R12L features a single expansion port

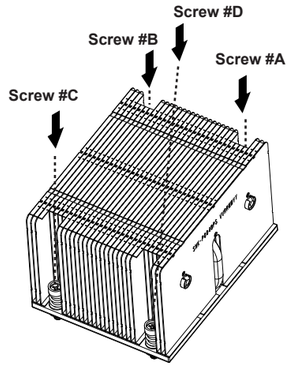
Beep Codes

BIOS Beep Codes		
Beep Code/LED	Message	Description
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps + 1 long beep	Memory	No memory detected
5 long beeps + 2 short beeps	Display memory read/write status	Video adapter missing or with faulty memory
1 continuous beep	System	System overheat

CPU Installation



Heatsink Installation



1. Place heatsink on top of installed CPU
2. Line up the four screws to socket
3. Push down heatsink and screw down as shown (cross pattern, in order: A, C, B, D)
4. NOTE: Only use 6-8 lb/f of torque; otherwise, hand-tighten each screw, to avoid damaging the system

Caution

SAFETY INFORMATION
IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

WARNING:
To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets.
If any CPU socket empty, install protective plastic CPU cap

CAUTION:
Always be sure all power supplies for this system have the same power output. If mixed power supplies are installed, the system will not operate.

For more information go to :
http://www.supermicro.com/support