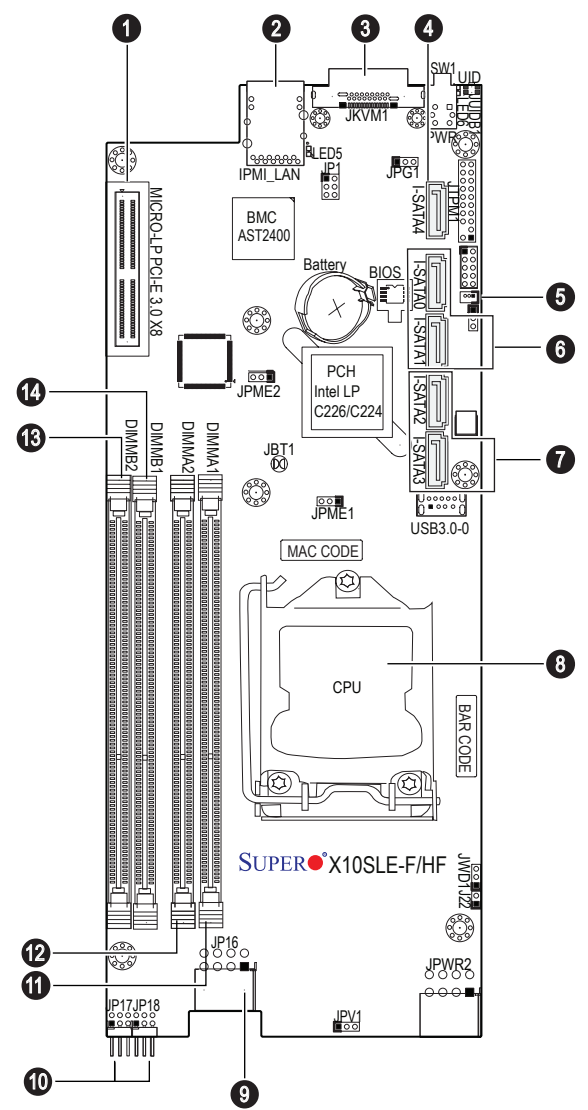


SUPERMICR<sup>®</sup> SuperServer 5038ML-H12TRF Quick Reference Guide

Board Layout



No.	Description	No.	Description
1	PCI-E 3.0 x8 (Micro LP Slot)	8	CPU1
2	IPMI: RJ45 IPMI port	9	JP16: Power Output for HDD (12V & 5V)
3	JKVM1: USB/VGA/COM port	10	JP17, JP18: MB Interface to PCB
4	SATA 2.0 Port: I-SATA4	11	DIMMA1 slot
5	JSD1 = SATA DOM Power	12	DIMMA2slot
6	SATA 3.0 Port: I-SATA 0/1	13	DIMMB2 slot
7	SATA 2.0 Port: I-SATA 2/3	14	DIMMB1 slot

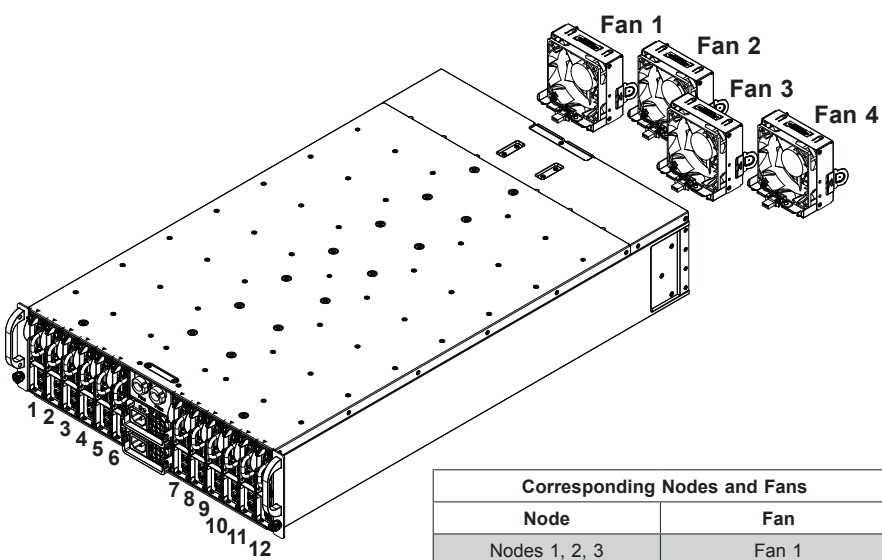
Beep Codes

Beep Code/LED	Error Message	Description
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps + 1 long beep	Memory error	No memory detected in the system
8 beeps	Display memory read/write error	Video adapter missing or with faulty memory
OH LED On	System OH	System Overheat

MEMORY

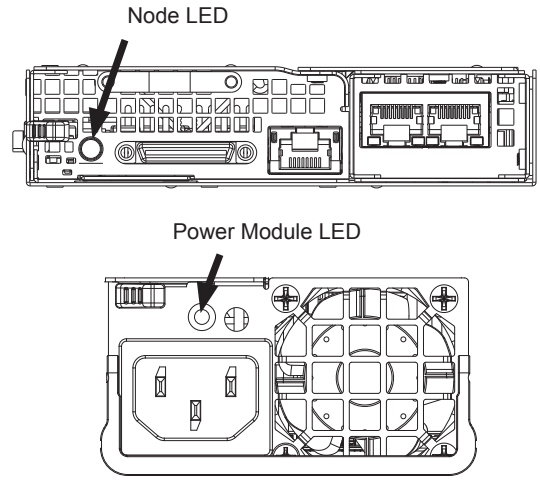
Recommended Population (Balanced)				
DIMMA2	DIMMB2	DIMMA1	DIMMB1	Total System Memory
2GB DIMM	2GB DIMM			4GB
2GB DIMM	2GB DIMM	2GB DIMM	2GB DIMM	8GB
4GB DIMM	4GB DIMM			8GB
4GB DIMM	4GB DIMM	4GB DIMM	4GB DIMM	16GB
8GB DIMM	8GB DIMM			16GB
8GB DIMM	8GB DIMM	8GB DIMM	8GB DIMM	32GB

Corresponding Nodes, Fans and Hard Drives



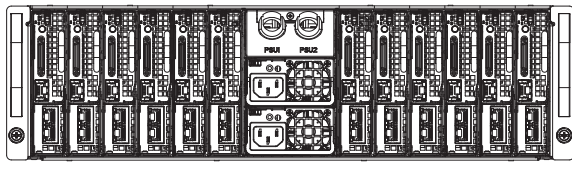
Corresponding Nodes and Fans	
Node	Fan
Nodes 1, 2, 3	Fan 1
Nodes 4, 5, 6	Fan 1
Nodes 7, 8, 9	Fan 2
Nodes 10, 11, 12	Fan 4

LED Indicator



LED Appearance	Description
Green	The power module is on and operating normally
Amber	The system is off, the power module is not turned on or needs service
Off	AC power is not connected to the power module or the module needs service

Front View

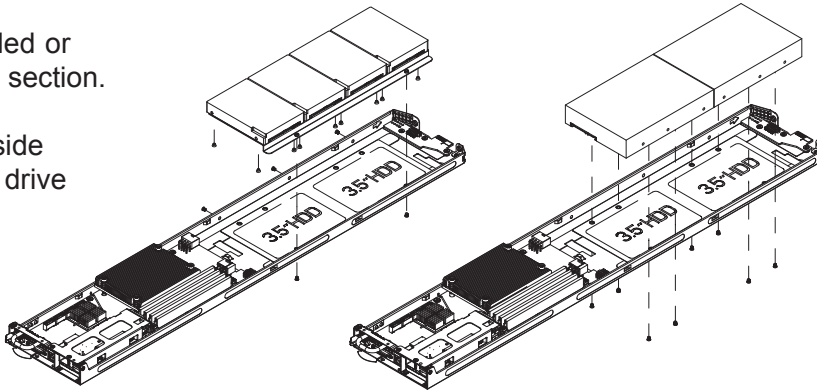


LED Appearance	Description
Green	The node is powered on and operating normally
Solid Red	The node is detecting an overheat condition
1Hz Blinking Red	The node is detecting a fan failure
.25Hz Blinking Red	The node is detecting a power failure
No Illumination	The node is powered down

Installing/Removing Hard Drives

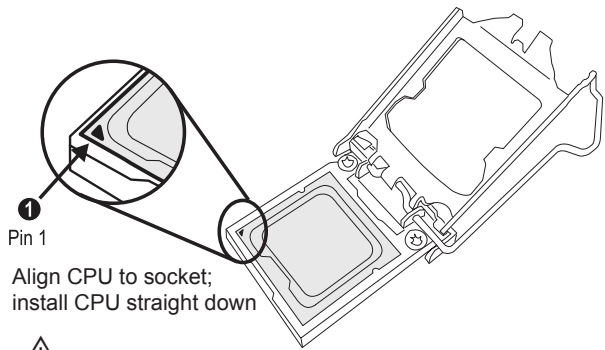
Installing/Removing Hard Drives from the Sled

1. Remove the node to have 2.5 or 3.5 HDDs installed or removed by following the procedure in the previous section.
2. Place the sled on a flat, non-conductive surface.
3. Insert the hard drive with the printed circuit board side facing downward so that the mounting holes in the drive align with those in the bottom of the sled.
4. Secure the hard drive to the sled with the screws included with the drive.
5. When finished installing or removing drives, push the node/sled back into the bay it was removed from.
6. Use the node's power to power it back on.



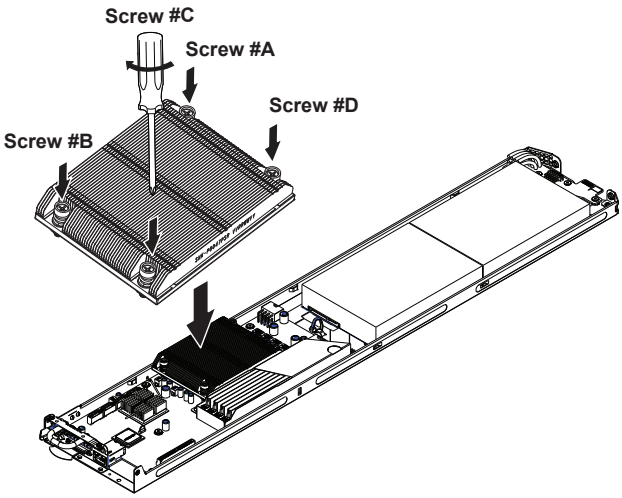
2.5" Hard Drives (Optional) 3.5" Hard Drives

CPU Installation



NOTE: Do not bend pin inside socket

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](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>