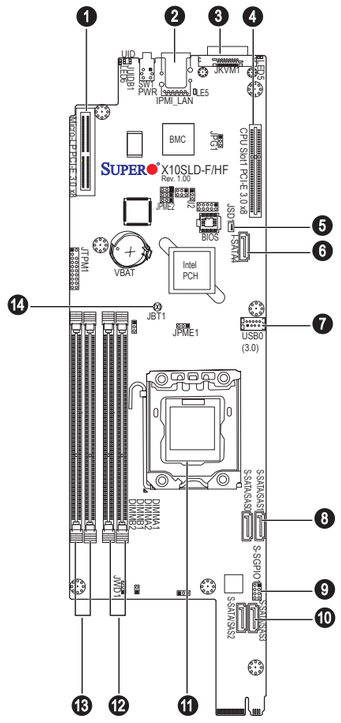
SUPERMICRO® SuperServer 5038ML-H8TRF Quick Reference Guide

Board Layout



No.	Description
1	PCI-E (Micro LP slot)
2	IPMI: RJ45 IPMI port
3	JKVM1: USB/VGA/COM port
4	PCI-E 3.0 x8 slot
5	JWF1: SATA Disk On Module (DOM) Power Connector
6	I-SATA4: Internal SATA port for SATA DOM
7	USB4: USB Connector
8	(S-)SATA/SAS0~1: Serial_Link SATA/SAS Ports 0~1 (SATA3/SAS2 is only for add-on cards)
9	S-SGPIO1: Serial Link General Purpose Input/Output Header 1
10	(S-)SATA/SAS2~3: Serial_Link SATA/SAS Ports 2~3 (SATA3/SAS2 is only for add-on cards)
11	CPU1 socket
12	DIMMA1/DIMMA2 slot
13	DIMMB1/DIMMB2 slot
14	JBT1 = CMOS Reset

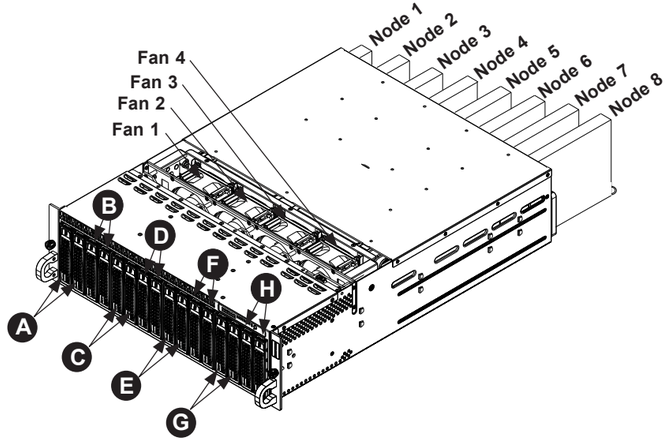
MEMORY

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

Beep Codes

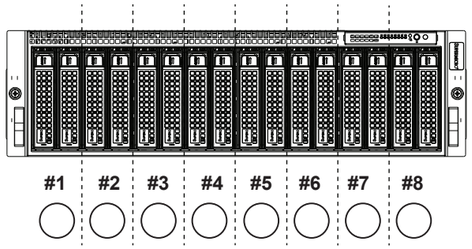
Beep Code/LED	Message	Description
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps	Memory error	No memory detected in the system
OH LED On	System OH	System Overheat

Corresponding Nodes, Fans and Hard Drives



Corresponding Nodes, Fans and HDDs		
Node	Fan	HDDs
Node 1	Fan 1	HDDs A1 and A2
Node 2	Fan 1	HDDs B1 and B2
Node 3	Fan 2	HDDs C1 and C2
Node 4	Fan 2	HDDs D1 and D2
Node 5	Fan 3	HDDs E1 and E2
Node 6	Fan 3	HDDs F1 and F2
Node 7	Fan 4	HDDs G1 and G2
Node 8	Fan 4	HDDs H1 and H2

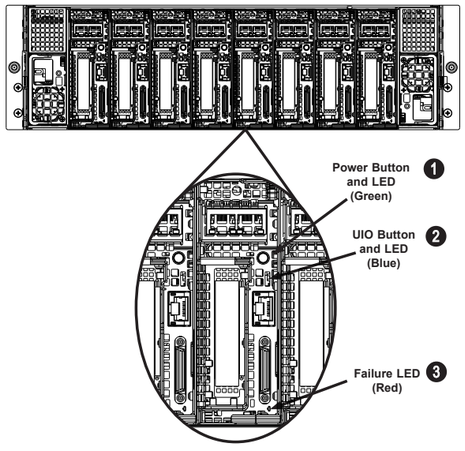
Front view & Interface



Node Status LEDs

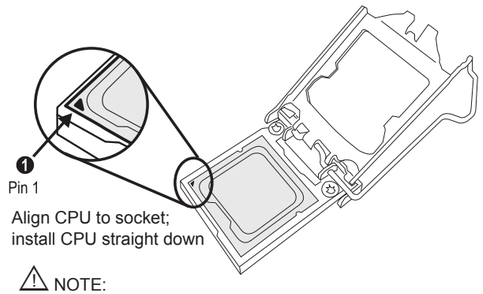
LED Appearance	Description
Solid Green	The node is powered on and operating normally
Blinking Green	The node is in the process of shutting down
Solid Red	The node is detecting an overheated condition
1Hz Blinking Red	The node is detecting a fan failure
.25Hz Blinking Red	The node is detecting a power failure
Solid Blue	The node local UID is on
1Hz Blinking Blue	The node remote UID is on
No Illumination	The node is powered-down

Rear View



No.	Description
1	Power Button and LED (Green)
2	UIO Button and LED (Blue)
3	Failure LED (Red)

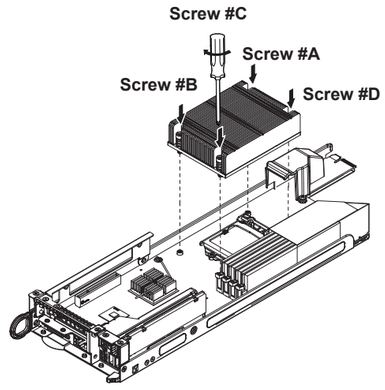
CPU Installation



Align CPU to socket;
install CPU straight down

⚠ 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

⚠ **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