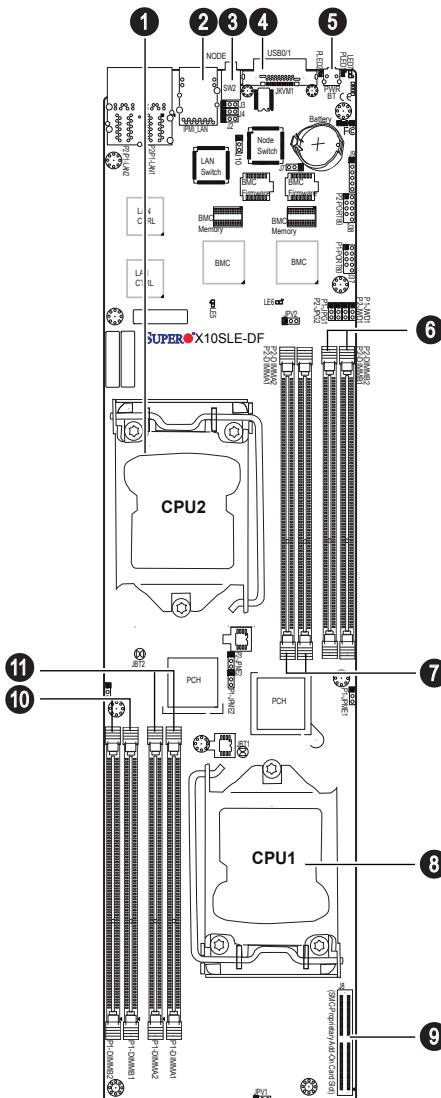


# SUPERMICRO® SuperServer 5038ML-H24TRF Quick Reference Guide

## Board Layout

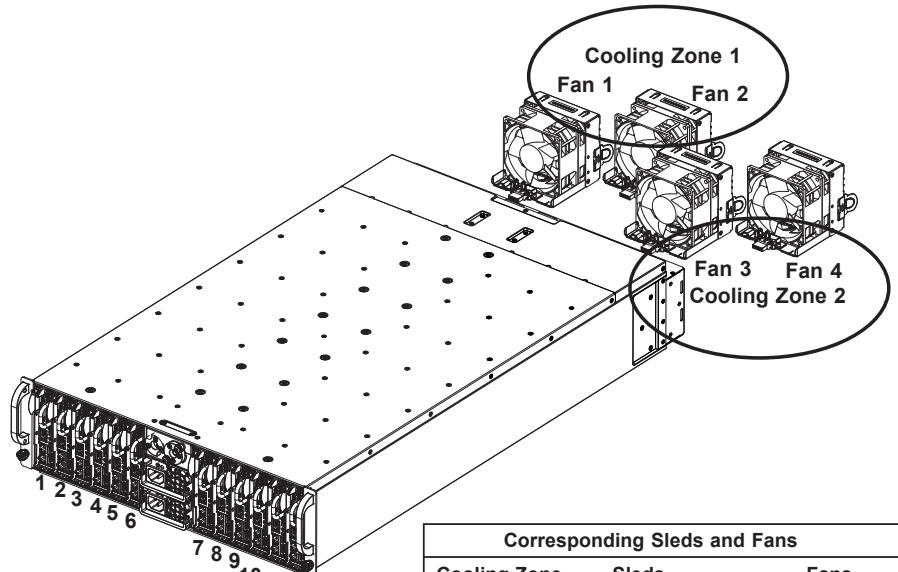


## MEMORY

### 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 Sleds, Fans and Hard Drives



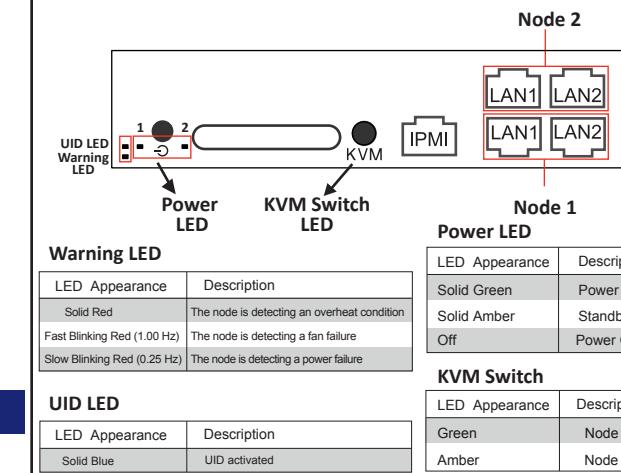
No.	Description
1	CPU2
2	IPMI: RJ45 IPMI port
3	Node Switch
4	JKVM1: USB/VGA/COM port
5	Power Button
6	P2-DIMMB1/P2-DIMMB2 (Blue)

No.	Description
7	P2-DIMMA1/P2-DIMMA2 (Blue)
8	CPU1
9	SMC-Proprietary Add-on card slot
10	P1-DIMMA1/P1-DIMMA2 (Blue)
11	P1-DIMMB1/P1-DIMMB2 (Blue)

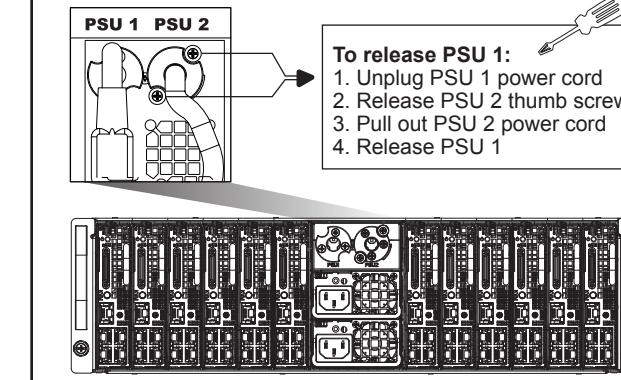
## Beep Codes

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
5 beeps	Display memory read/write error	Video adapter missing or with faulty memory
OH LED On	System OH	System Overheat

## LED Indicator



## Release PSU 1

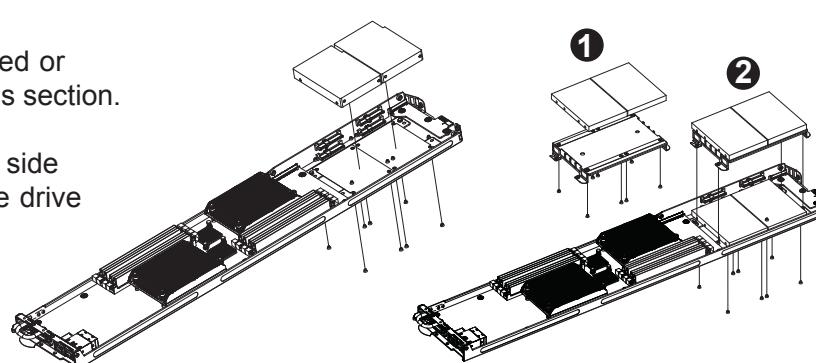


A default interconnected power cord 250VAC, 14 AWG with C13 to C14 connectors and can be used for power strips or racks/PDU with a 200V- 240VAC rating only. When required, the alternative power cord should be purchased separately. For North American use, a wall-plug 250 VAC, NEMA 6-15P or 6-20P, wire size 14-16AWG power cord should be used.

## Installing/Removing Hard Drives

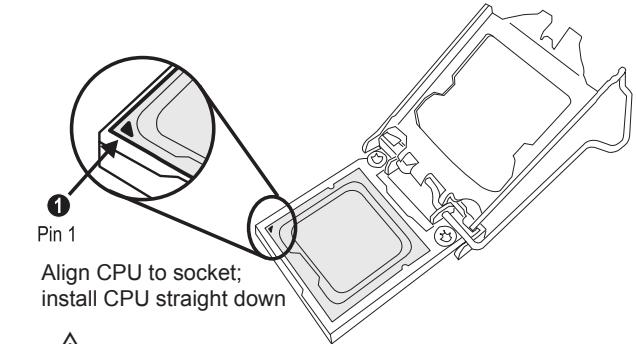
### Installing/Removing Hard Drives from the Sled

1. Remove the sled to have 2.5 or 2.5" SSD 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.

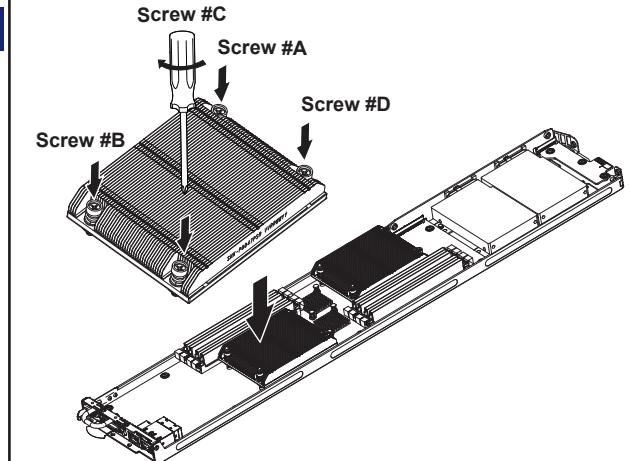


2 x 2.5" Hard Drives  
4 x slim 2.5" SSD Hard Drives  
(Optional)

## CPU Installation



## Heatsink Installation



## 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.  
Warning! Only the approved power cords or default power cords provided with the server are supported. Other alternative power cords must be certified and suitably rated for the use.

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

