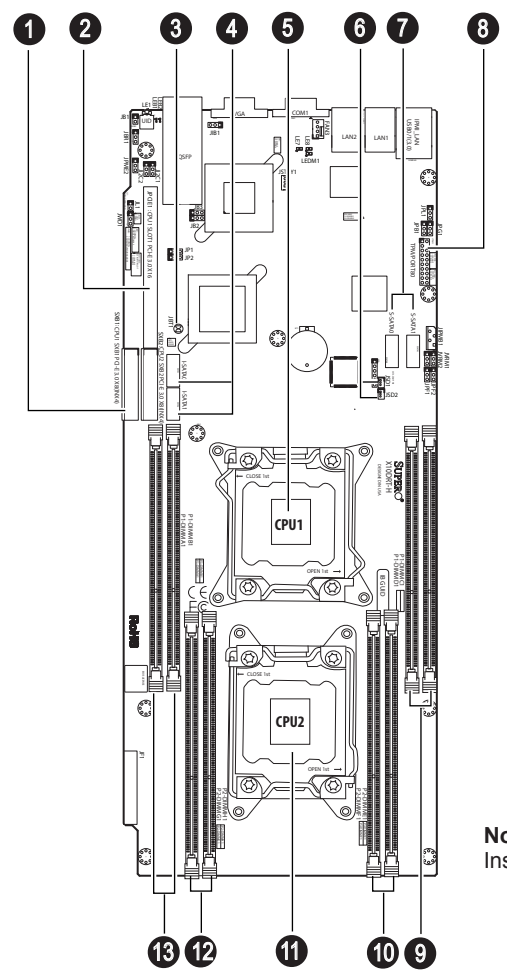


SUPERMICR® SuperServer 2028TR-HTR/HTFR/H72R/H72FR Quick Reference Guide

Board Layout



Note:
Install CPU1 first

No.	Description
1	SXB1: CPU1 SXB1 PCI-E 3.0 X8 (INX4)
2	SXB2: CPU2 SXB2 PCI-E 3.0 X8 (INX4) JPCI1: CPU1 SLOT1 PCI-E 3.0 X16
3	JBT1: CMOS Clear
4	I-SATA0/I-SATA1: SATA3 Drive Connectors
5	CPU1 (Install CPU1 first)
6	JSD1/JSD2: SATA DOM Power
7	S-SATA0/S-SATA1
8	JTPM1: TPM(Trusted Platform Module)/Port 80
9	P1-DIMMC1/P1-DIMMD1
10	P2-DIMME1/P2-DIMMF1
11	CPU2
12	P2-DIMMH1/P2-DIMMG1
13	P1-DIMMA1/P1-DIMMB1

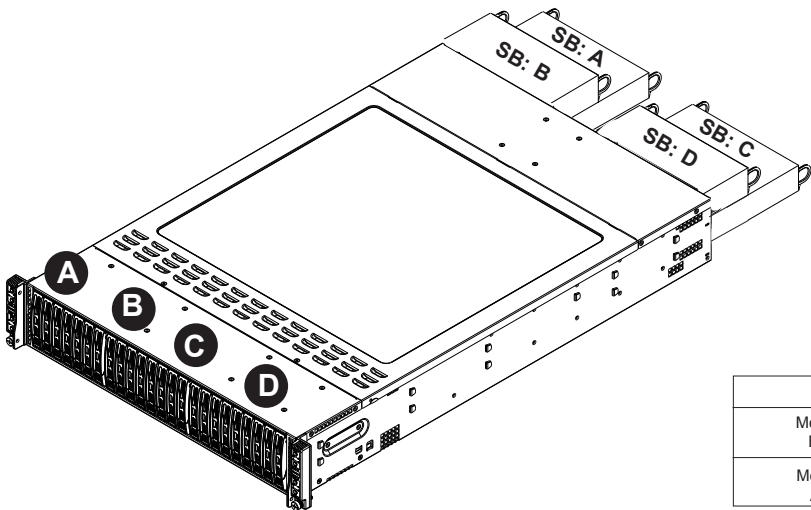
Memory

Processors and their Corresponding Memory Modules				
CPU#	Corresponding DIMM Modules			
CPU 1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1
CPU2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1

Processor and Memory Module Population for Optimal Performance	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please follow the instructions below.)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
2 CPUs & 4 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1

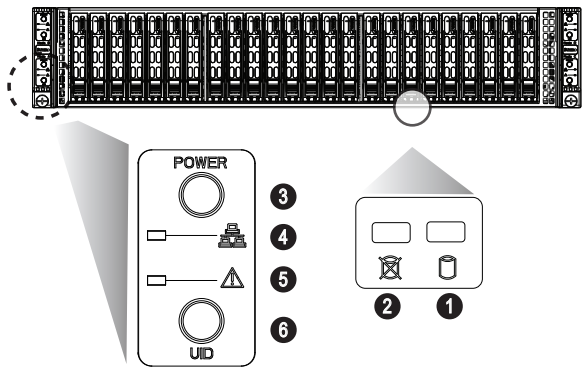
Populating RDIMM/LRDIMM DDR4 Memory Modules							
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC)			
				2 Slots per Channel			
				1 DPC		2 DPC	
		4 GB	8 GB	E5-2600 V3	E5-2600 V4	E5-2600 V3	E5-2600 V4
RDIMM	SRx4	8 GB	16 GB	2133	2400	1866	2133
RDIMM	SRx8	4 GB	8 GB	2133	2400	1866	2133
RDIMM	DRx8	8 GB	16 GB	2133	2400	1866	2133
RDIMM	DRx4	16 GB	32 GB	2133	2400	1866	2133
LRDIMM	QRx4	32 GB	64 GB	2133	2400	2133	2400
LRDIMM 3DS	8Rx4	64 GB	128 GB	2133	2400	2133	2400

Nodes and Corresponding Hard Drives



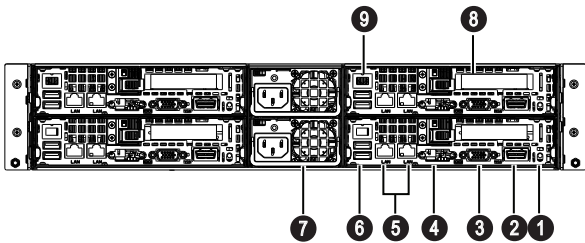
Motherboard Drawer Locations in the Chassis	
Motherboard B controls HDDs B1, B2, B3, B4, B5 and B6	Motherboard D controls HDDs D1, D2, D3, D4, D5 and D6
Motherboard A controls HDDs A1, A2, A3, A4, A5 and A6	Motherboard C controls HDDs C1, C2, C3, C4, C5 and C6

Front View & Interface



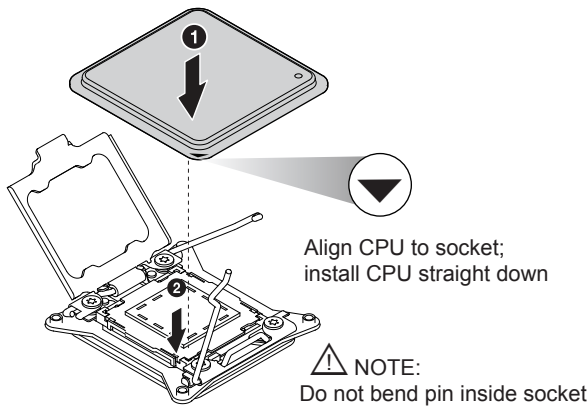
No.	Description
1	Hard Drive Signal
2	Hard Drive Fail
3	Power Button
4	LAN LED
5	Information LED
6	UID Button

Rear View

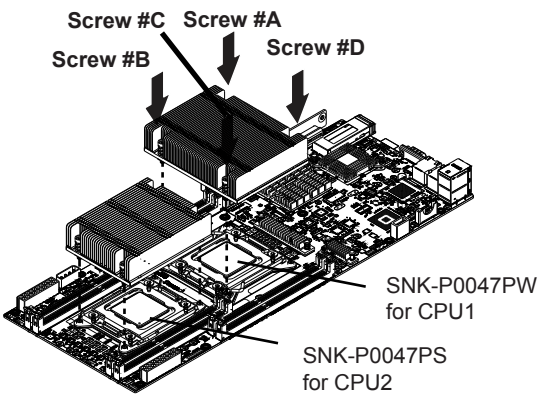


No.	Description
1	UID Button
2	Infiniband Port (2028TR-H72FR only)
3	VGA Port
4	COM Port
5	LAN Ports
6	USB Ports
7	Power Supply Module
8	Low-Profile PCI-E Slot (up to 5.9")
9	IPMI LAN Port

CPU Installation



Heatsink Installation



- Place the heatsink on top of the installed CPU.
- Align the four screws to the socket.
- Holding the heatsink in place, screw down as shown (cross pattern, in order: A, C, B, D).
- Note: Only use 6-8 lb/f of torque; otherwise, hand-tighten each screw to avoid damaging the CPU.

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>

