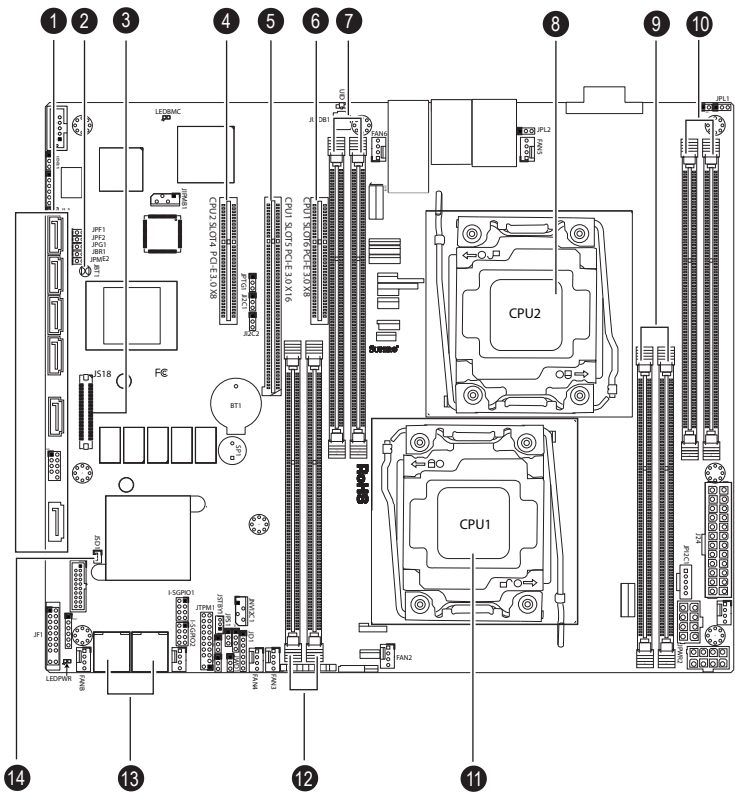


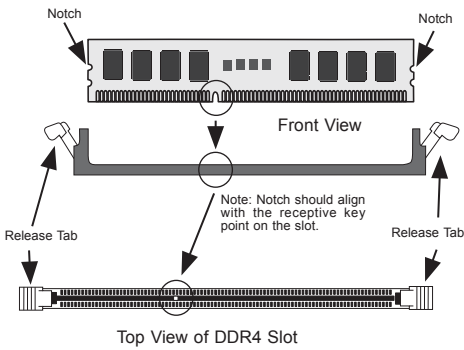
SUPERMICR[®] SuperServer 1028R-MCTR Quick Reference Guide

Board Layout



No.	Description
1	I-SATA0 ~I-SATA5: SATA 3.0 Ports
2	JBT1: CMOS Clear
3	JS18: LSI SAS 3108 TFM Connector
4	CPU2 Slot4 PCI-E 3.0 x8
5	CPU1 Slot5 PCI-E 3.0 x16
6	CPU1 Slot6 PCI-E 3.0 x8
7	P2-DIMME1/P2-DIMMF1 slot
8	CPU2
9	P1-DIMMA1/P1-DIMMB1 slot
10	P2-DIMMG1/P2-DIMMH1 slot
11	CPU1 (Install CPU1 First)
12	P1-DIMMC1/P1-DIMMD1 slot
13	L-SAS 4~7 & L-SAS 0~3: SAS 3.0 Ports
14	JSD1: SATA DOM (Disk On Module) Power Connector

Memory



Processors and their Corresponding Memory Modules				
CPU#	Corresponding DIMM Modules			
CPU 1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1
CPU 2	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

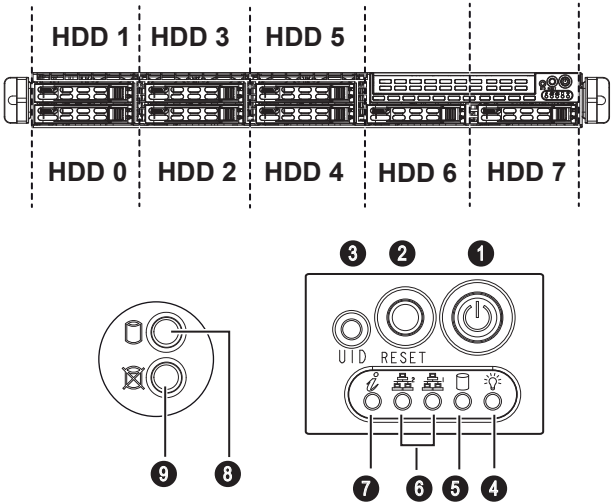
Populating RDIMM/LRDIMM DDR4 Memory Modules

Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)	Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC)			
			1 Slot per Channel			
			1 DPC			
			E5-2600 V3		E5-2600 V4	
RDIMM	SRx4	4 Gb	8 Gb	1.2 V	1.2 V	
		8 GB	16 GB	2133	2400	
RDIMM	DRx8	4 GB	8 GB	2133	2400	
		8 GB	16 GB	2133	2400	
RDIMM	DRx4	16 GB	32 GB	2133	2400	
		32 GB	64 GB	2133	2400	
LRDIMM	QRx4	32 GB	64 GB	2133	2400	
		64 GB	128 GB	2133	2400	

Beep Codes

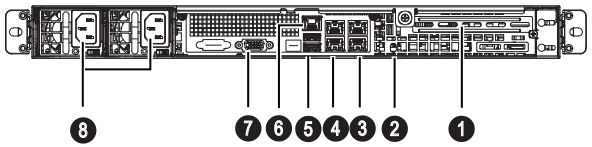
Beep Code/LED	Message	Description
1 beep	Refresh	Ready to boot
5 short beeps + 1 long beep	Memory error	No memory detected in the system
5 beeps	No Con-In or No Con-Out devices	Con-In includes USB or PS/2 keyboard, PCI or Serial Console Redirection, IPMI KVM or SOL. Con-Out includes Video Controller, PCI or Serial Console Redirection, IPMI SOL.
1 beep per device	Refresh	1 beep or each USB device detected

Front View & Interface



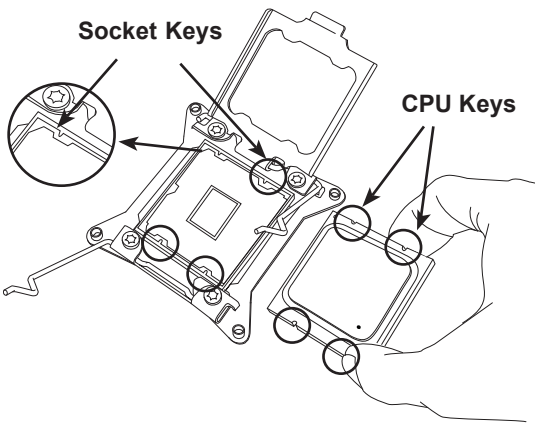
No.	Description
1	Power Button
2	Reset Button
3	UID Button
4	Power LED
5	Device Activity LED
6	LAN1 LED & LAN2 LED
7	Information LED
8	Hard Drive Signal
9	Hard Drive Fail

Rear View

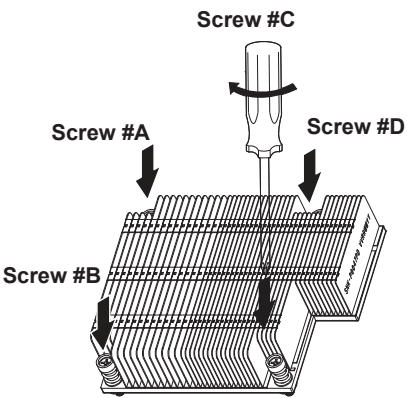


No.	Description
1	FHHL PCI-E Expansion Slot (CPU1)
2	UID
3	10Gb LAN3/LAN4 Ports
4	1Gb LAN1/LAN2 Ports
5	USB Port 0/1 (3.0)
6	Dedicated LAN for IPMI
7	VGA Port
8	Redundant Power Supply Module

CPU Installation



Heatsink Installation



1. Place the heatsink on top of the installed CPU.
2. Align the four screws to the socket.
3. Holding the heatsink in place, 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 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>

