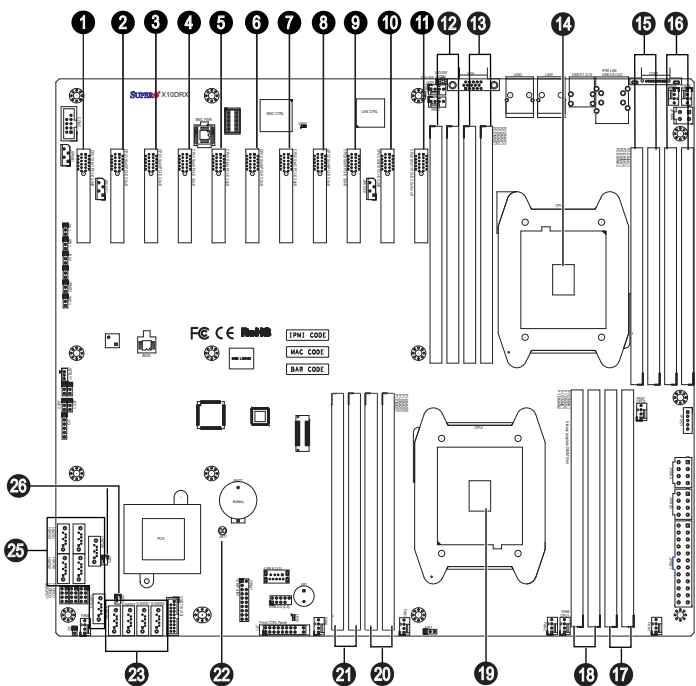


SUPERMICR[®] SuperServer 2028R-TXR Quick Reference Guide

Board Layout



No.	Description
1	CPU1 Slot1 PCI-E 3.0 x8
2	CPU1 Slot2 PCI-E 3.0 x8
3	CPU1 Slot3 PCI-E 3.0 x8
4	CPU1 Slot4 PCI-E 3.0 x8
5	CPU1 Slot5 PCI-E 3.0 x8
6	CPU2 Slot6 PCI-E 3.0 x8
7	CPU2 Slot7 PCI-E 3.0 x8
8	CPU1 Slot8 PCI-E 3.0 x8
9	CPU2 Slot9 PCI-E 3.0 x8
10	CPU2 Slot10 PCI-E 3.0 x8
11	CPU2 Slot11 PCI-E 2.0 x4 (in x8)
12	DIMME1(Blue)/DIMME2 slot
13	DIMMF1 (Blue)/DIMMF2 slot
14	CPU2 Socket
15	DIMMH1 (Blue)/DIMMH2 slot
16	DIMMG1 (Blue)/DIMMG2 slot
17	DIMMA1 (Blue)/DIMMA2 slot
18	DIMMB1 (Blue)/DIMMB2 slot
19	CPU1 (it must be installed on it first)
20	DIMMD1 (Blue)/DIMMD2 slot
21	DIMMC1 (Blue)/DIMMC2 slot
22	JBT1 = Clear CMOS
23	(S-)SATA 3.0 Ports #0~3
24	(L-)SATA 2.0 Ports #0~4
25	JSD1 & JSD2 = SATA Device Power Connector

Memory

Processors and their Corresponding Memory Modules								
CPU#	Corresponding DIMM Modules							
CPU 1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1	P1-DIMMA2	P1-DIMMB2	P1-DIMMC2	P1-DIMMD2
CPU 2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	P2-DIMMG2	P2-DIMMH2

Populating RDIMM/LRDIMM DDR4 Memory Modules						
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slot per Channel (SPC) and DIMM per Channel (DPC)		
				1 Slot Per Channel	2 Slots Per Channel	
		4 Gb	8 Gb	1DPC	1DPC	2DPC
RDIMM	SRx4	8 GB	16 GB	1.2 V	1.2 V	2133
RDIMM	SRx8	4 GB	8 GB	2400	2400	2133
RDIMM	DRx8	8 GB	16 GB	2400	2400	2133
RDIMM	DRx4	16 GB	32 GB	2400	2400	2133
LRDIMM	QRx4	32 GB	64 GB	2400	2400	2400
LRDIMM 3DS	8Rx4	64 GB	128 GB	2400	2400	2400

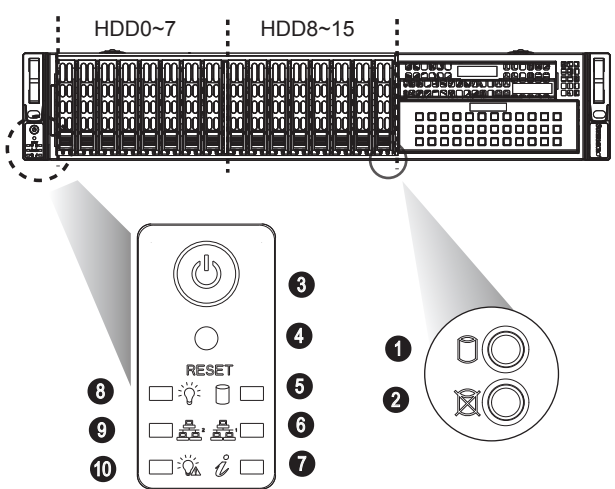
Processor and Memory Module Population for Optimal Performance	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please follow this table.)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
1 CPU & 6 or 8 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1 + any pair of P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2 slots
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
2 CPUs & 10~16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1 + any pair of P1, P2 DIMM slots
2 CPUs & 16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1, P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2, P2-DIMME2/P2-DIMMF2/P2-DIMMG2/P2-DIMMH2

Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Beep Codes

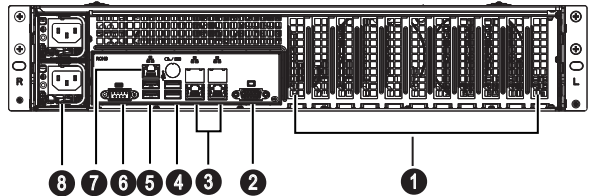
Beep Code/LED	Message	Description
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps + 1 long beep	Memory	No memory detected
5 long beeps + 2 short beeps	Display memory read/write status	Video adapter missing or with faulty memory
1 continuous beep	System	System overheat

Front View & Interface



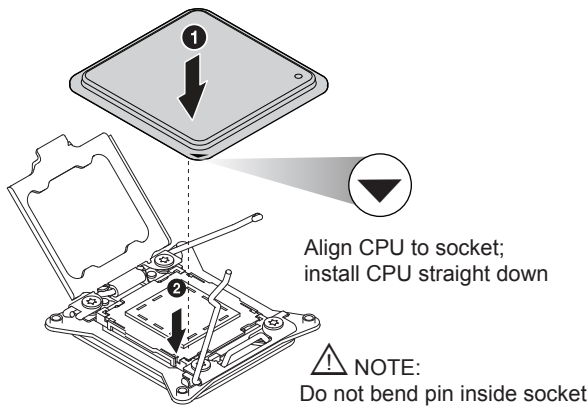
No.	Description
1	Hard Drive Signal
2	Hard Drive Fail
3	Power Button
4	Reset Button
5	Device Activity LED
6	LAN1 LED
7	Universal Information LED
8	Power LED
9	LAN2 LED
10	Power Failure LED

Rear View

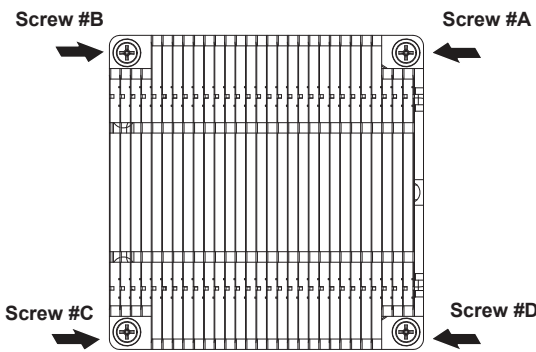


No.	Description
1	11 Standard PCI Slots
2	VGA Port
3	LAN 1/2 Ports
4	USB 2.0 Ports
5	USB 3.0 Ports
6	COM Port
7	Dedicated LAN for IPMI
8	Redundant Power Supply Modules

CPU Installation



Heatsink Installation



- Place heatsink on top of installed CPU
- Line up the four screws to socket
- Push down heatsink and 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 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>

