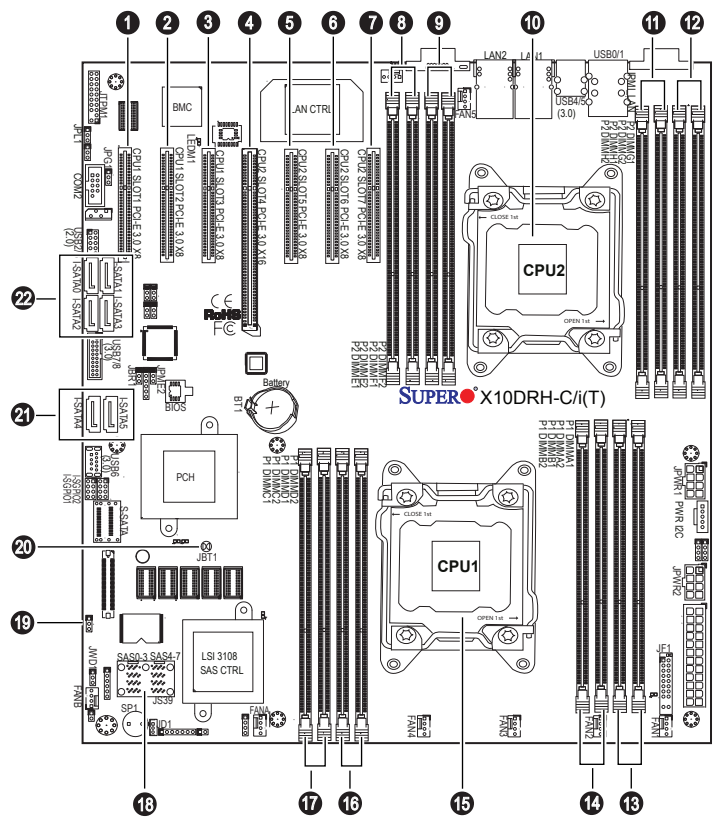


SUPERMICR[®] SuperServer 2028R-C1R/C1RT Quick Reference Guide

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 x16
5	CPU2 Slot5 PCI-E 3.0 x8
6	CPU2 Slot6 PCI-E 3.0 x8
7	CPU2 Slot7 PCI-E 3.0 x8
8	DIMME1(Blue)/DIMME2 slot
9	DIMMF1(Blue)/DIMMF2 slot
10	CPU2
11	DIMMH1(Blue)/DIMMH2 slot
12	DIMMG1(Blue)/DIMMG2 slot
13	DIMMA1(Blue)/DIMMA2 slot
14	DIMMB1(Blue)/DIMMB2 slot
15	CPU1 (Install CPU1 first)
16	DIMMD1(Blue)/DIMMD2 slot
17	DIMMC1(Blue)/DIMMC2 slot
18	SAS 0~3 & SAS 4~7: SAS 3.0 connections supported by the LSI 3108 controller
19	(S)SATA 0~3: SATA 3.0 supported by Intel SCU (S-SATA 0~3)
20	JBT1: Clear CMOS
21	(I-)SATA 4~5: SATA 3.0 supported by Intel PCH (I-SATA 4~5)
22	(I-)SATA 0~3: SATA 3.0 supported by Intel PCH (I-SATA 0~3)

Memory

Processors and their Corresponding Memory Modules								
CPU#	Corresponding DIMM Modules							
CPU1	P1-A1	P1-B1	P1-C1	P1-D1	P1-A2	P1-B2	P1-C2	P1-D2
CPU2	P2-E1	P2-F1	P2-G1	P2-H1	P2-E2	P2-F2	P2-G2	P2-H2

Processor and Memory Module Population	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (*For memory to work proper, please install DIMMs in pairs)
1 CPU & 2 DIMMs	CPU1 P1-A1/P1-B1
1 CPU & 4 DIMMs	CPU1 P1-A1/P1-B1, P1-C1/P1-D1
1 CPU & 5~8 DIMMs	CPU1 P1-A1/P1-B1, P1-C1/P1-D1 + Any memory pairs in P1-A2/-B2/-C2/-D2 DIMM slots
2 CPUs & 4 DIMMs	CPU1 + CPU2 P1-A1/P1-B1, P2-E1/P2-F1
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1/P2-G1/P2-H1
2 CPUs & 10~16 DIMMs	CPU1/CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1/P2-G1/P2-H1 + Any memory pairs in P1, P2 DIMM slots
2 CPUs & 16 DIMMs	CPU1/CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1/P2-G1/P2-H1, P1-A2/P1-B2/P1-C2/P1-D2, P2-E2/P2-F2/P2-G2/P2-H2

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	
				E5-2600 V3	E5-2600 V4	E5-2600 V3	E5-2600 V4
		4 GB	8 GB	1.2 V	1.2 V	1.2 V	1.2 V
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

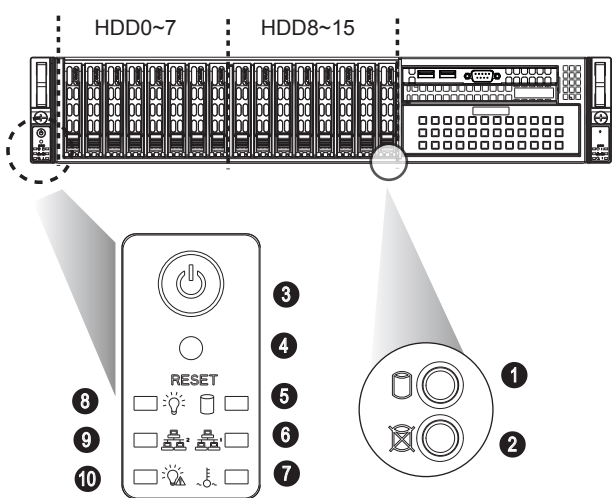
Note: For the memory modules to work properly, please install DIMM modules in pairs (with an even number of DIMMs installed).

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

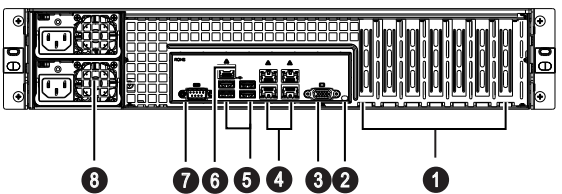
Beep Code/LED	Error Message	Description
1 beep	Refresh	Ready to boot
5 short beeps + 1 long beep	Memory error	No memory detected in the system
5 beeps	No Con-In or No Con-Out devices	Con-In includes USB or PS/2 keyboard, PC or Serial Console Redirection, IPMI KVM or SOL. Con-Out includes Video Controller,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

Front View & Interface



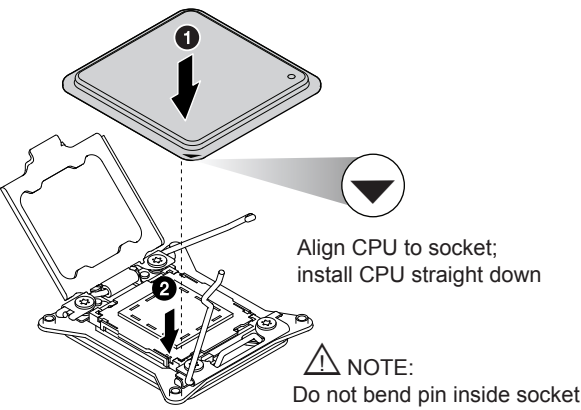
No.	Description
1	Hard Drive Signal
2	Hard Drive Fail
3	Power Button
4	Reset Button
5	Device Activity LED
6	LAN1 LED
7	Overheat & Fan Fail LED
8	Power LED
9	LAN2 LED
10	Power Failure LED

Rear View

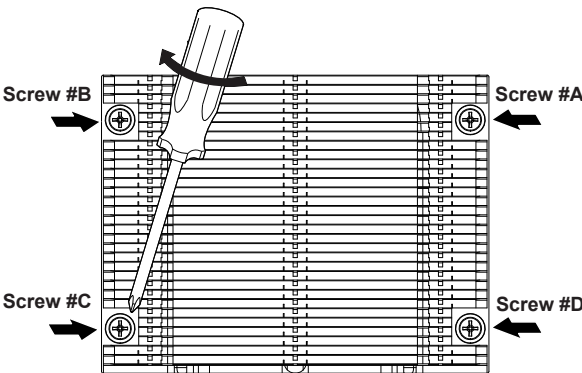


No.	Description
1	PCI Expansion Slots
2	UID
3	VGA Port
4	LAN 1/2/3/4 Ports
5	USB 0/1/2/3 Ports
6	Dedicated LAN for IPMI
7	COM Port
8	Redundant Power Supply Modules

CPU Installation



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>

