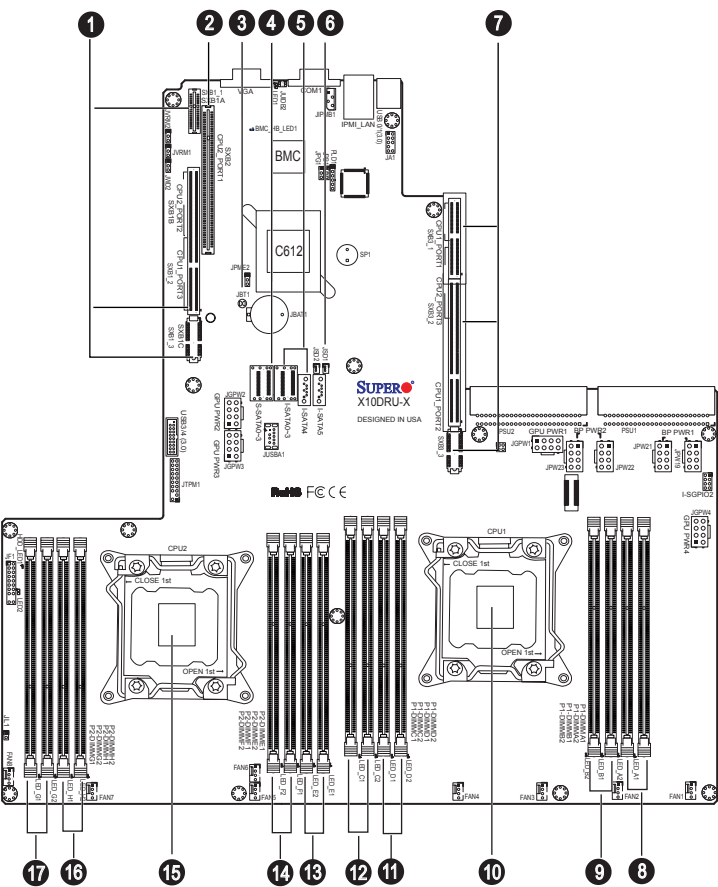


SUPERMICR[®] SuperServer 1028UX Series Quick Reference Guide

Board Layout



No.	Description
1	SXB1_1/1_2/1_3: PCI-E 3.0 (x16 + x16) Left Riser Card Slot
2	SXB2: PCI-E 3.0 (x8) Center Riser Card Slot
3	JBT1: CMOS Clear
4	S-SATA0~3: SATA 3.0 Ports (Intel SCU)
5	I-SATA0~5: SATA 3.0 Ports (Intel PCH)
6	JSD1/JSD2: SATA DOM (Device_on_Module) Power Connectors
7	SXB3_1/3_2/3_3: PCI-E 3.0 (x8 internal) Right Ultra Riser Card Slot
8	P1-DIMMA1(Blue)/P1-DIMMA2 slot
9	P1-DIMMB1(Blue)/P1-DIMMB2 slot
10	CPU1 (Install CPU1 first)
11	P1-DIMMD1(Blue)/P1-DIMMD2 slot
12	P1-DIMMC1(Blue)/P1-DIMMC2 slot
13	P2-DIMME1(Blue)/P2-DIMME2 slot
14	P2-DIMMF1(Blue)/P2-DIMMF2 slot
15	CPU2
16	P2-DIMMH1(Blue)/P2-DIMMH2 slot
17	P2-DIMMG1(Blue)/P2-DIMMG2 slot

Memory

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

Processor & Memory Module Population Configuration
For memory to work properly, follow the tables below for memory installation.

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

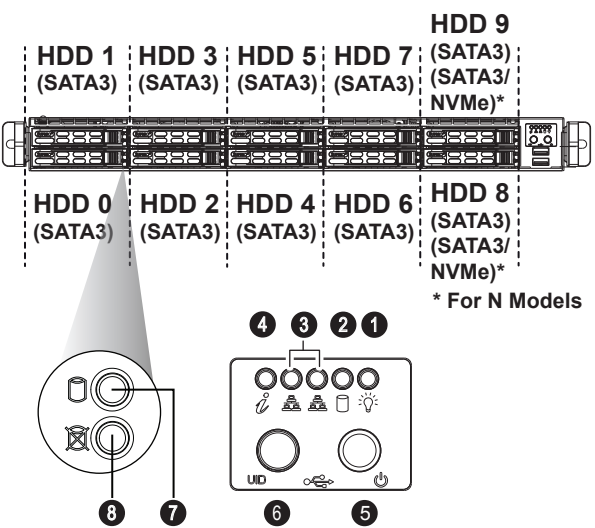
Processor and Memory Module Population for Optimal Performance	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, follow the instructions below)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
2 CPUs & 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
2 CPUs & 10~16 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1 + Any memory pairs in 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:
1028UX-LL1 includes 2643 v3/v4, 1028UX-LL2 includes 2687W v3/v4 and 1028UX-LL3 includes 2689 v4
Pre-populated with 8 * 8GB memory DIMMs.
By default BIOS is set to force memory to highest frequency 2133/2400 (v3/v4) whether its 1DPC or 2DPC

Beep Codes

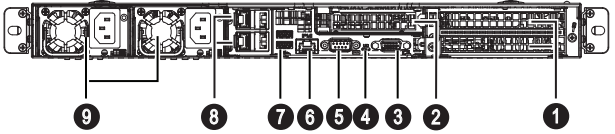
Beep Code/LED	Error Message	Description
1 beep	Refresh	Ready to boot
5 short beeps + 1 long beep	Memory error	No memory detected in the system
5 beeps	No Con-In or No Con-Out devices	Con-In: USB or PS/2 keyboard, PCI or Serial Console Redirection, IPMI, KVM or SOL Con-Out: Video Controller, PCI or Serial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

Front View & Interface



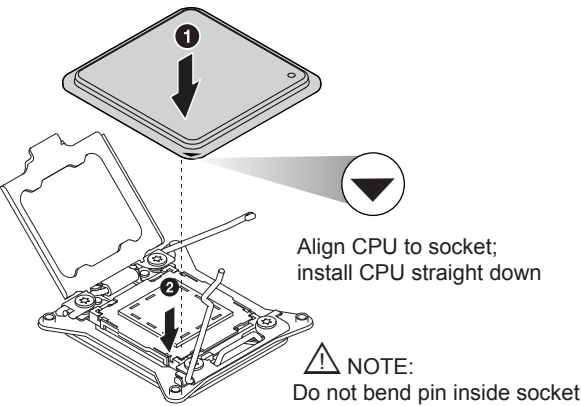
No.	Description
1	Power LED
2	Device Activity LED
3	LAN1 LED & LAN2 LED
4	Universal Information LED
5	Power Button
6	UID Button
7	Hard Drive Signal
8	Hard Drive Fail

Rear View

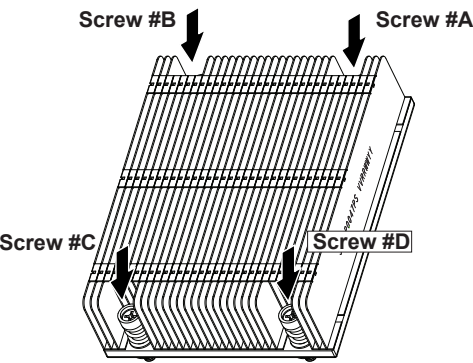


No.	Description
1	2 PCI-E 3.0 x16 (CPU1/CPU2) Expansion Slots (Full-height 4.2", Length 10.5")
2	PCI-E 3.0 x8 (CPU2) Expansion Slot (Low Profile (2.536"), Half Length (6.6"))
3	VGA Port
4	UID Button (Unit Identifier Button)
5	COM Port
6	Dedicated LAN for IPMI
7	USB 3.0 Ports
8	LAN Ports (4)
9	Redundant 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>

