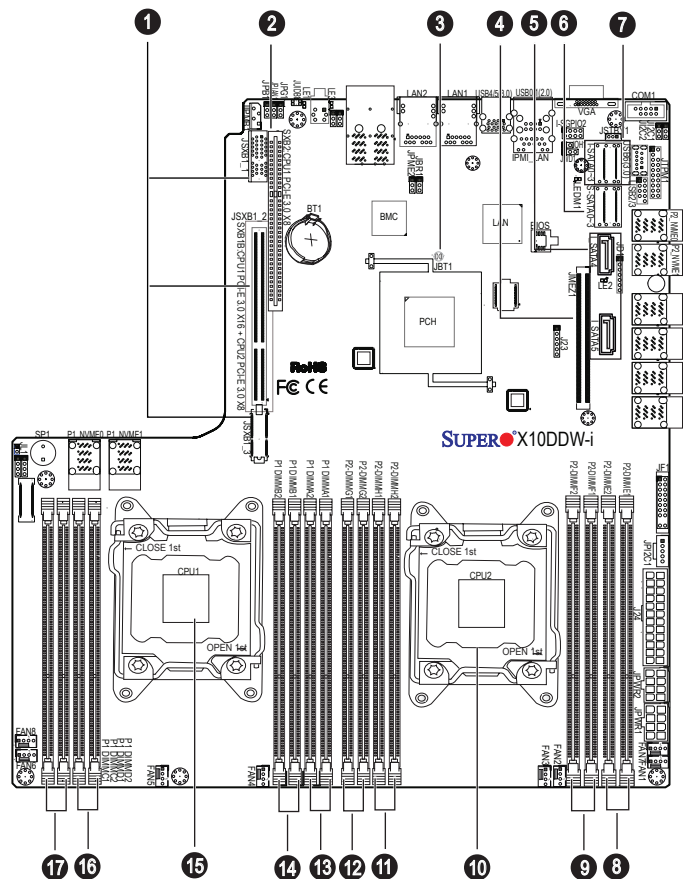


SUPERMICR® SuperServer 1028R-TDW Quick Reference Guide

Board Layout



* Note: NVMe ports are not included on the X10DDW-i

No.	Description
1	JSXB1_1/JSXB1_2/JSXB1_3: SMC-Proprietary CPU1 PCI-E 3.0 x16 + CPU2 PCI-E 3.0 x8 slot w/riser-card support
2	SXB2: CPU1 PCI-E 3.0 x16 SMCI-Proprietary WIO slot
3	JBT1: Clear CMOS
4	JMEZ1: SMCi-proprietary PCI-E 3.0 x8 Mezzanine slot w/SAS support
5	I-SATA 4/5: Intel SATA 3.0 Ports w/SuperDOMs supported
6	S-SATA 0~3 (JS2): Intel SATA 3.0 Connectors 0~3
7	I-SATA 0~3 (JS1): Intel SATA 3.0 Connectors 0~3
8	P2-DIMME1(Blue)/P2-DIMME2 slot
9	P2-DIMMF1(Blue)/P2-DIMMF2 slot
10	CPU2
11	P2-DIMMH1(Blue)/P2-DIMMH2 slot
12	P2-DIMMG1(Blue)/P2-DIMMG2 slot
13	P2-DIMMA1(Blue)/P2-DIMMA2 slot
14	P2-DIMMB1(Blue)/P2-DIMMB2 slot
15	CPU1 (Install CPU1 first)
16	P2-DIMMD1(Blue)/P2-DIMMD2 slot
17	P2-DIMMC1(Blue)/P2-DIMMC2 slot

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
CPU2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	P2-DIMMG2	P2-DIMMH2

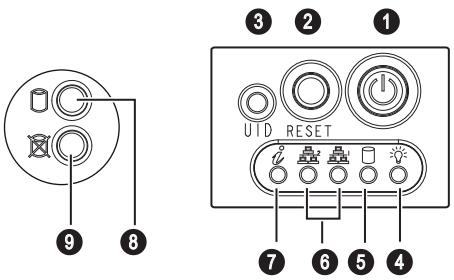
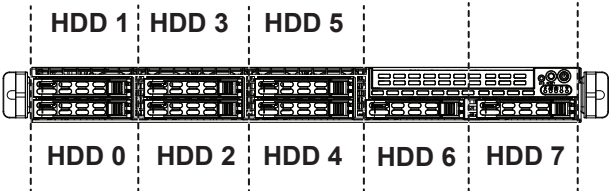
Processor and Memory Module Population for Optimal Performance	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please follow the instructions below.)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
1 CPU & 5~8 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1 + Any memory pairs in 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 & 9~16 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

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

Beep Codes

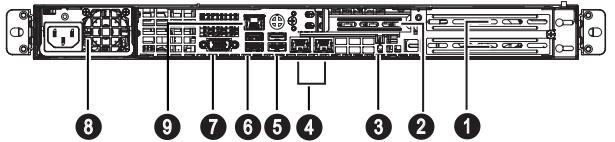
Beep Code	Error Message	Description
1 beep	Refresh	Circuits have been reset (Ready to power up)
5 short beeps and 1 long beep	Memory error	No memory detected in the system
5 beeps	No Con-In or No Con-Out devices	Con-In: USB or PS/2 keyboard, PCI or Serial Console Redirection, IPMI KVM or SOL Con-Out: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

Front View & Interface



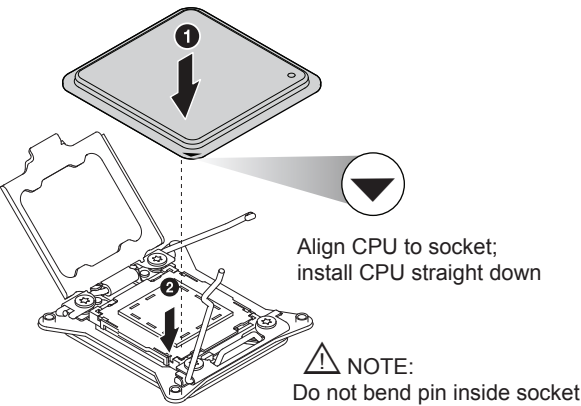
No.	Description
1	Power Button
2	Reset Button
3	UID Button
4	Power LED
5	Device Activity LED
6	LAN1 LED & LAN2 LED
7	Information LED
8	Hard Drive Signal
9	Hard Drive Fail

Rear View

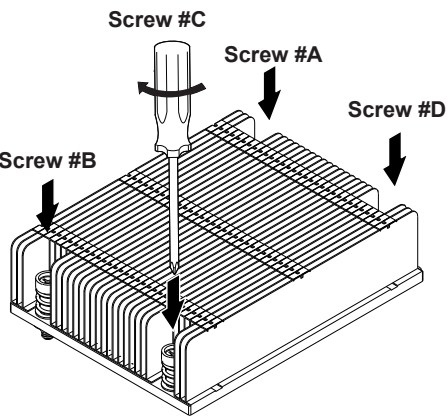


No.	Description
1	PCI-E 3.0 x16 Expansion Slot (w/Riser Card) (FHHL)
2	PCI-E 3.0 x8 Expansion Slot (w/Riser Card) (LP)
3	UID Button (Unit Identifier Button)
4	LAN1 & LAN2
5	USB 2.0 Ports
6	USB 3.0 Ports
7	VGA Port
8	Power Supply Module
9	Dedicated LAN for IPMI

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>

