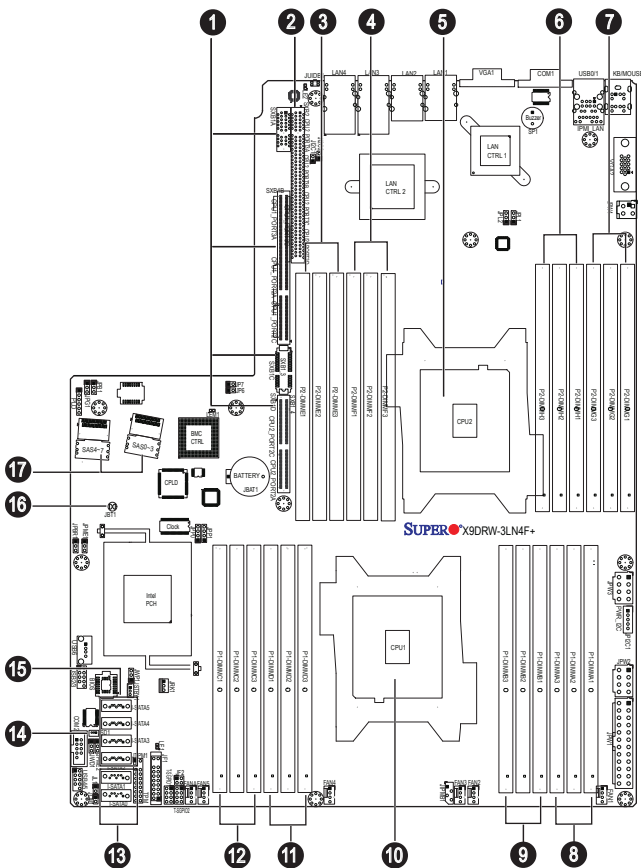


SUPERMICR SuperServer 1027R-WRF4+/WRFT+ Quick Reference Guide

Board Layout



No.	Description
1	SXB1A/SXB1B/SXB1C/SXB1D: SMC-Proprietary WIO_L (Left) Add-On Card Slot
2	SXB2: SMC-Proprietary WIO_R (Right) Add-On Card Slot
3	P2-DIMME1(Blue)/P2-DIMME2/P2-DIMME3 slot
4	P2-DIMMF1(Blue)/P2-DIMMF2/P2-DIMMF3 slot
5	CPU2
6	P2-DIMMH1(Blue)/P2-DIMMH2/P2-DIMMH3 slot
7	P2-DIMMG1(Blue)/P2-DIMMG2/P2-DIMMG3 slot
8	P1-DIMMA1(Blue)/P2-DIMMA2/P2-DIMMA3 slot
9	P1-DIMMB1(Blue)/P2-DIMMB2/P2-DIMMB3 slot
10	CPU1 (Install CPU1 first)
11	P1-DIMMD1(Blue)/P2-DIMMD2/P2-DIMMD3 slot
12	P1-DIMMC1(Blue)/P2-DIMMC2/P2-DIMMC3 slot
13	SATA 3 Ports 0~1 (from Intel SB)
14	JSD1 = SATA DOM Power
15	SATA 2 Ports 2~5 (from Intel SB)
16	JBT1 = CMOS Reset
17	SAS ports 0~3, 4~7 (from Intel SB)

MEMORY

Processors and their Corresponding Memory Modules											
CPU#	Corresponding DIMM Modules										
CPU 1	P1-A1	P1-A2	P1-A3	P1-B1	P1-B2	P1-B3	P1-C1	P1-C2	P1-C3	P1-D1	P1-D2
CPU2	P2-E1	P2-E2	P2-E3	P2-F1	P2-F2	P2-F3	P2-G1	P2-G2	P2-G3	P2-H1	P2-H2

Processor and Memory Module Population	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please follow the tables below.)
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, P1-A2/P1-B2, P1-C2/P1-D2
2 CPUs & 4 DIMMs	CPU1 + CPU2 P1-A1/P1-B1, P2-E1/P2-F1
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-A1/P1-B1, P2-E1/P2-F1, P1-C1/P1-D1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-A1/P1-B1, P2-E1/P2-F1, P1-C1/P1-D1, P2-G1/P2-H1
2 CPUs & 9~12 DIMMs	CPU1/CPU2 P1-A1/P1-B1, P2-E1/P2-F1, P1-C1/P1-D1, P2-G1/P2-H1, P1-A2/P1-B2, P2-E2/P2-F2
2 CPUs & 13 DIMMs~24 DIMMs	CPU1/CPU P1-A1/P1-B1, P2-E1/P2-F1, P1-C1/P1-D1, P2-G1/P2-H1, P1-A2/P1-B2, P2-E2/P2-F2, P1-C2/P1-D2, P2-G2/P2-H2, P1-A3/P1-B3, P2-E3/P2-F3, P1-C3/P1-D3, P2-G3/P2-H3

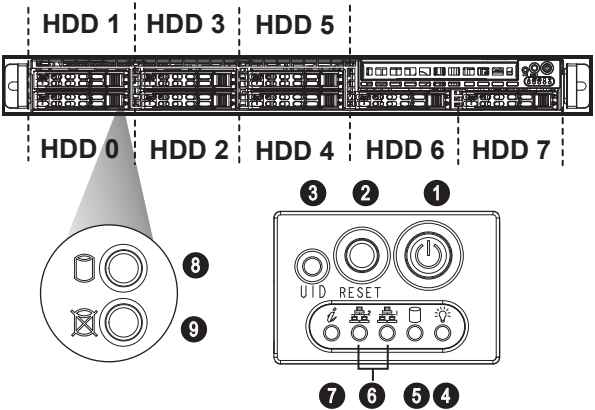
UDIMM Support			
DIMMs Populated per DDR Channel	UDIMM Type (Unb. DIMM)	POR Speeds (in MHz)	Ranks per DIMM (Any Combination)
1	ECC/Non-ECC DDR3	1066, 1333	SR, DR
2	ECC/Non-ECC DDR3	1066, 1333	SR, DR

RDIMM Support			
DIMMs Populated per DDR Channel	RDIMM Type (Reg. DIMM)	POR Speeds (in MHz)	Ranks per DIMM (Any Combination)
1	Reg. ECC DDR3	1066, 1333, 1600	SR, DR
2	Reg. ECC DDR3	1066, 1333, 1600	SR, DR
3	Reg. ECC DDR3	800, 1066	SR, DR
1	Reg. ECC DDR3	1066	QR
2	Reg. ECC DDR3	800	QR

LRDIMM Support			
DIMMs Populated per DDR Channel	LRDIMM Type (Load Reduced DIMM)	POR Speeds (in MHz)	Ranks per DIMM (Any Combination)
1	LR ECC DDR3	1066, 1333	QR
2	LR ECC DDR3	1066, 1333	QR
3	LR ECC DDR3	1066	QR

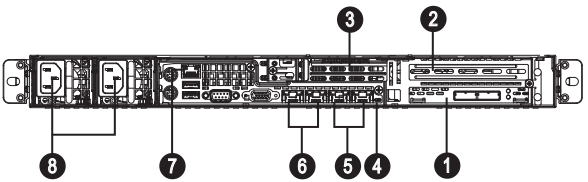
Note: All channels in a system will run at the fastest common frequency.

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

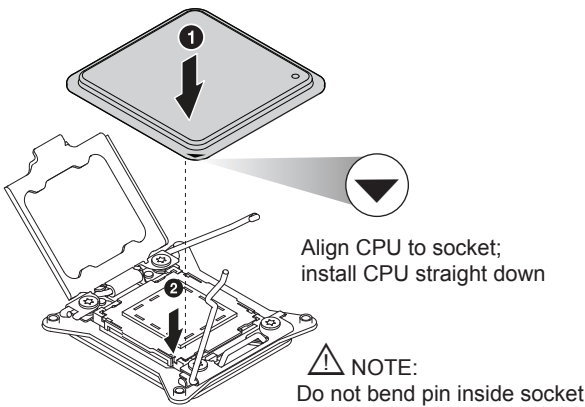


No.	Description
1	PCI-E 3.0 x16 Expansion Slot (FH, 6.6"L)
2	PCI-E 3.0 x16 Expansion Slot (FH, 10"L)
3	PCI-E 3.0 x8 Expansion Slot (LP, 4.1"L)
4	UID Button (Unit Identifier Button)
5	LAN3 & LAN4 (1GbE for WRF4+ SKU, 10GBase-T for WRFT+ SKU)
6	LAN1 & LAN2 (1GbE)
7	Dedicated LAN for IPMI
8	Redundant Power Supply Modules

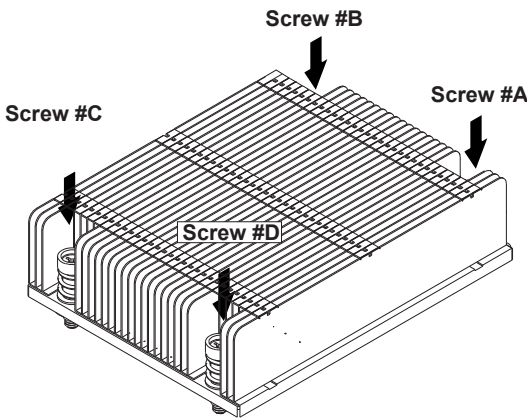
Beep Codes

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 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.

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>

