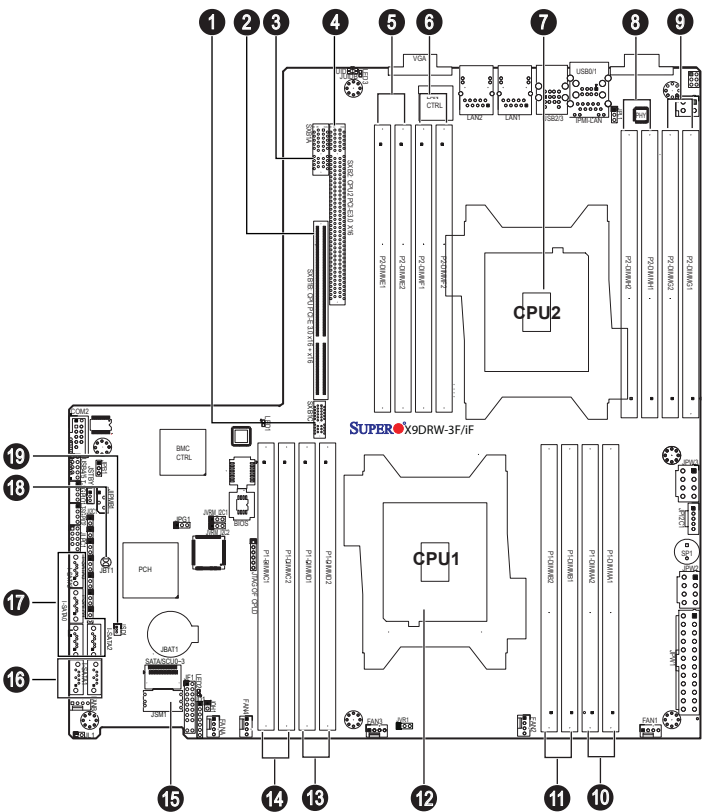


SUPERMICR[®] SuperServer 2027R-WRF Quick Reference Guide

Board Layout



No.	Description
1	SXB1C: SMC-Proprietary SPEC slot
2	SXB1B : SMC-Proprietary PCI-E 3.0 x16 + x16 slot (left)
3	SXB1A: SMC-Proprietary SPEC slot
4	SXB2: CPU2 PCI-E 3.0 x16 slot (right)
5	P2-DIMME1(Blue)/P2-DIMME2 slot
6	P2-DIMMF1(Blue)/P2-DIMMF2 slot
7	CPU2
8	P2-DIMMH1(Blue)/P2-DIMMH2 slot
9	P2-DIMMG1(Blue)/P2-DIMMG2 slot
10	P2-DIMMA1(Blue)/P2-DIMMA2 slot
11	P2-DIMMB1(Blue)/P2-DIMMB2 slot
12	CPU1 (Install CPU1 first)
13	P2-DIMMD1(Blue)/P2-DIMMD2 slot
14	P2-DIMMC1(Blue)/P2-DIMMC2 slot
15	Serial_Link SATA/SCU Connections 0~3
16	I-SATA0/I-SATA1 = SATA 3.0 ports
17	I-SATA2 ~I-SATA5 = SATA 2.0 ports
18	JBT1 = CMOS Clear
19	JSD1 = SATA DOM Power

MEMORY

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

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-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, P1-DIMMA2/P1-DIMMB2, P1-DIMMC2/P1-DIMMD2
2 CPUs & 4 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1, P1-DIMMC1/P1-DIMMD1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1, P1-DIMMC1/P1-DIMMD1, P2-DIMMG1/P2-DIMMH1
2 CPUs & 9~12 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1, P1-DIMMC1/P1-DIMMD1, P2-DIMMG1/P2-DIMMH1, P1-DIMMA2/P1-DIMMB2, P2-DIMME2/P2-DIMMF2
2 CPUs & 13 DIMMs~16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1, P1-DIMMC1/P1-DIMMD1, P2-DIMMG1/P2-DIMMH1, P1-DIMMA2/P1-DIMMB2, P2-DIMME2/P2-DIMMF2, P1-DIMMC2/P1-DIMMD2, P2-DIMMG2/P2-DIMMH2

UDIMM Support on the Intel E5-2600 Series Processor Platform			
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 on the Intel E5-2600 Series Processor Platform			
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
1	Reg. ECC DDR3	1066	QR
2	Reg. ECC DDR3	800	QR

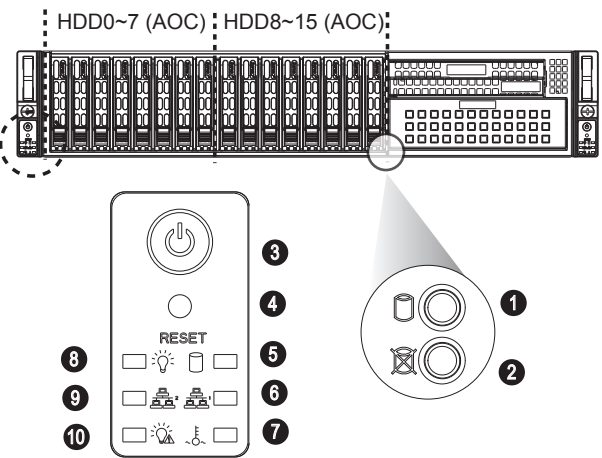
LRDIMM Support on the Intel E5-2600 Series Processor Platform			
DIMMs Populated per DDR Channel	LRDIMM Type (Load Reduced DIMM)	POR Speeds (in MHz)	Ranks per DIMM (Any Combination)
1	LR ECC DDR3	1066, 1333	QR
2	LR ECC DDR3	1066, 1333	QR

LRDIMM Support on the Intel E5-2600 Series Processor Platform			
1	LR ECC DDR3	1066, 1333	QR
2	LR ECC DDR3	1066, 1333	QR

Beep Codes

BIOS 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	Display memory read/write status	Video adapter missing or with faulty memory
1 beep per device	Refresh	1 beep for each USB device
OH LED On	System	System overheat

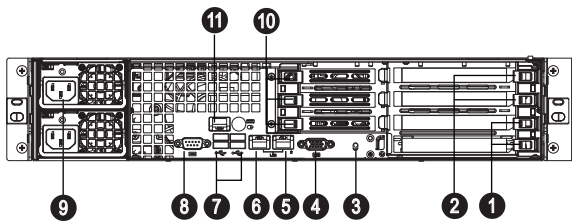
Front view & Interface



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

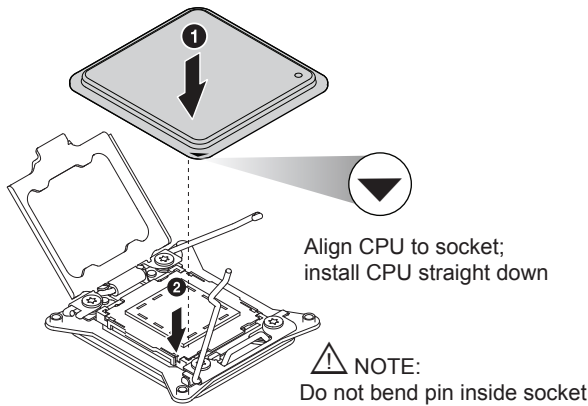
* Hard drive storage controller from add-on card

Rear View

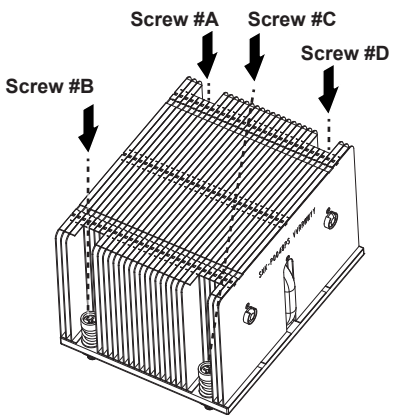


No.	Description
1	PCI-E 3.0 x8 Expansion Slot (FH, 6.6"L)
2	PCI-E 3.0 x8 Expansion Slot (FH, 13.5"L)
3	UID Button
4	VGA Port
5	GbE LAN2 Port
6	GbE LAN1 Port
7	USB 2.0 (Port 0~ 3 Ports)
8	COM1 Port
9	Power Supply Modules
10	N/A
11	Dedicated LAN for IPMI

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>

