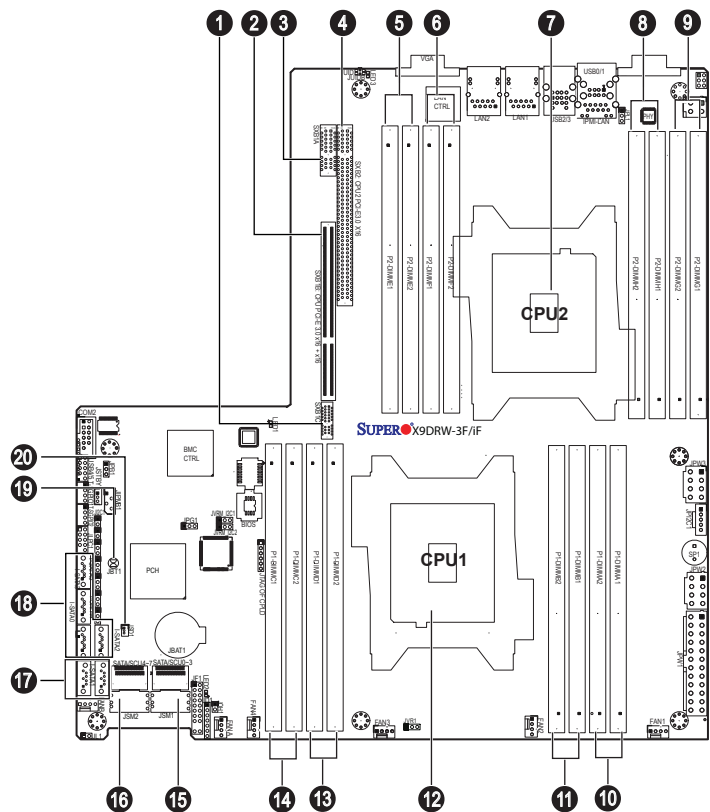


SUPERMICR[®] SuperServer 6027R-N3RF/WRF Quick Reference Guide

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	Serial_Link SATA/SCU Connections 4~7 (for 6027R-N3RF model only)
17	I-SATA0/I-SATA1 = SATA 3.0 ports
18	I-SATA2 ~I-SATA5 = SATA 2.0 ports
19	JBT1 = CMOS Clear
20	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

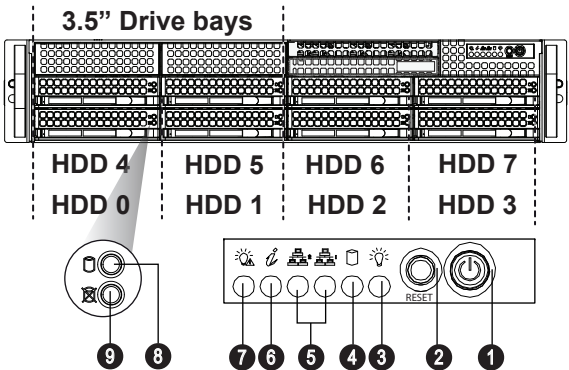
LRDIMM Support on the Intel E5-2600 Series Processor Platform			
DIMMs Populated per DDR Channel	LRDIMM Type (Load Reduced DIMM)	POR Speeds (in MHz)	Ranks per DIMM (Any Combination)
1	LR ECC DDR3	1066, 1333	QR
2	LR ECC DDR3	1066, 1333	QR

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

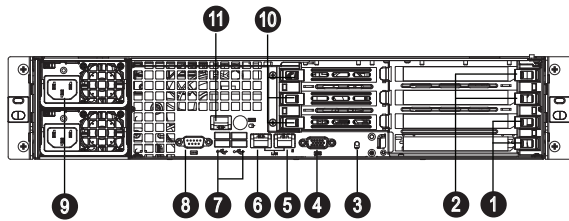
Front view & Interface



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

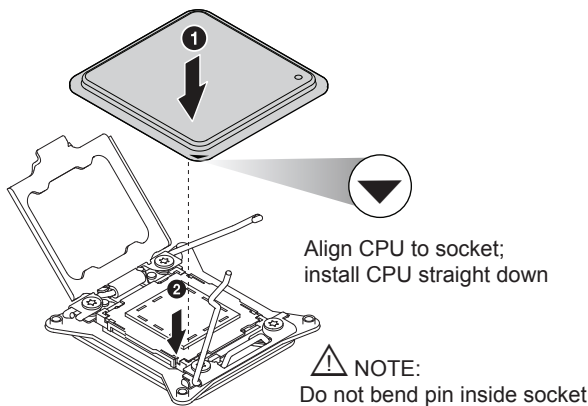
Storage Interface	
Hard Drive Bay	HDD 0~7
Model	
6027R-N3RF	SAS (3 Gbps)
6027R-WRF	From storage add-on card

Rear View

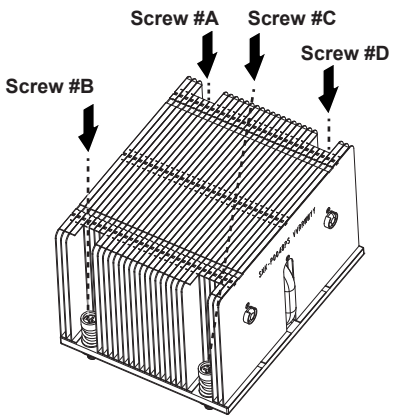


No.	Description
1	PCI-E 3.0 x8 Expansion Slot (FH, 6.6"L)
2	PCI-E 3.0 x8 Expansion Slot (FH, 13.5"L)
3	UID Button
4	VGA Port
5	GbE LAN2 Port
6	GbE LAN1 Port
7	USB 2.0 (Port 0~ 3 Ports)
8	COM1 Port
9	Power Supply Modules
10	N/A
11	Dedicated LAN for IPMI

CPU Installation



Heatsink Installation



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>

