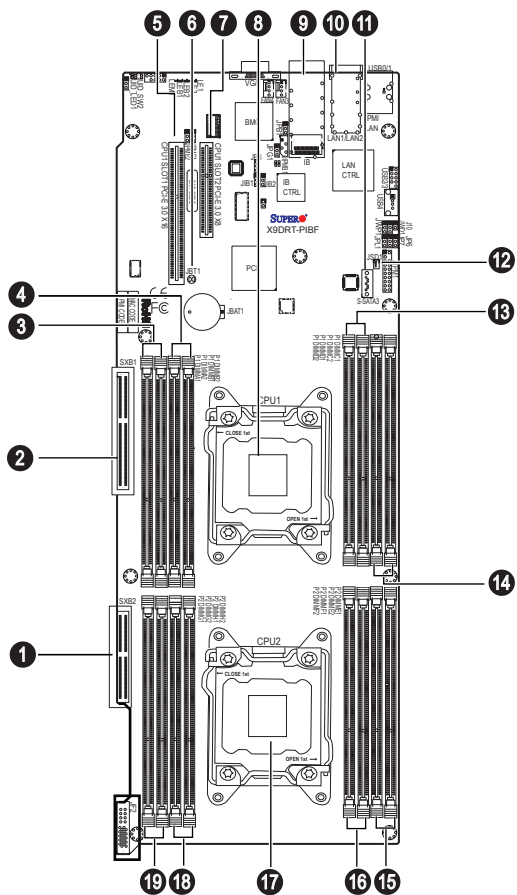


SUPERMICR[®] SuperServer 6027PR-HC0R/HC0TR/HC0FR Quick Reference Guide

Board Layout



Note:
1. Install CPU1 first.
2. In order to support SAS3 and Zero slots, two CPUs must be installed.

No.	Description
1	SXB2: I-SATA 0-5/PCI-E 3.0 x8 Slot supported by CPU2
2	SXB1: S-SATA 0-2/PCI-E 3.0 x16 Slot supported by CPU2
3	P1-DIMMA1/P1-DIMMA2 slot
4	P1-DIMMB1/P2-DIMMB2 slot
5	Slot1: CPU1 Slot1 PCI-E 3.0 x16
6	JBT1: CMOS Clear
7	Slot2: CPU1 Slot2 PCI-E 3.0 x8
8	CPU1 (Install CPU1 first)
9	InfiniBand (FDR) Connector (6027PR-HC0FR only)
10	Gigabit LAN1/LAN2 or 10G Base-T Connector (6027PR-HC0TR only)
11	S-SATA3: SATA DOM (Disk_On_Module) with Power-pin Connector
12	JSD1: SATA DOM (Device_On_Module) Power Connector
13	P1-DIMMD1/P1-DIMMD2 slot
14	P1-DIMMC1/P1-DIMMC2 slot
15	P2-DIMME1/P2-DIMME2 slot
16	P2-DIMMF1/P2-DIMMF2 slot
17	CPU2
18	P2-DIMMH1/P2-DIMMH2 slot
19	P2-DIMMG1/P2-DIMMG2 slot

Memory

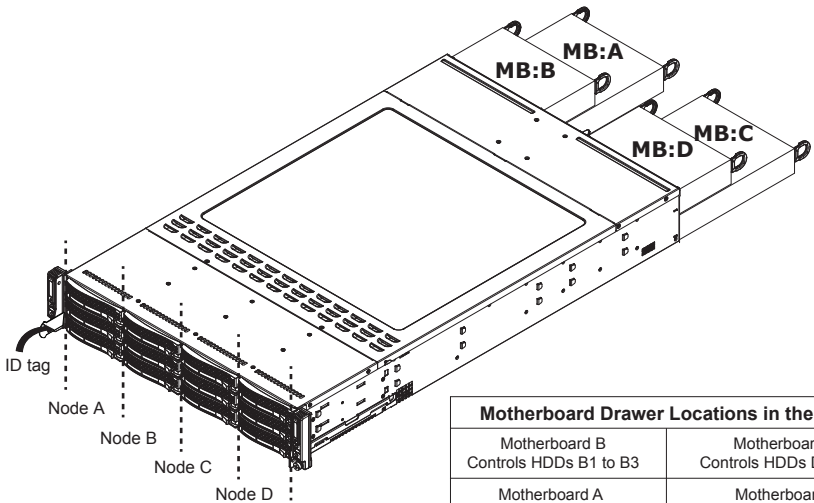
Processors and their Corresponding Memory Modules							
CPU#	Corresponding DIMM Modules						
CPU 1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1	P1-DIMMA2	P1-DIMMB2	P1-DIMMC2
CPU 2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	P2-DIMMG2

Processors 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
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 slot
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 & 8-16 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

Intel E5-2600(v2) Series Processor RDIMM Memory Support							
Ranks Per DIMM & Data Width	Memory Capacity Per DIMM (See the Note Below)			Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)			
				2 Slots Per Channel			
				1DPC		2DPC	
				1.35V	1.5V	1.35V	1.5V
SRx8	1GB	2GB	4GB	1066,1333	1066, 1333, 1600, 1866	1066,1333	1066, 1333, 1600
DRx8	2GB	4GB	8GB	1066, 1333	1066, 1333, 1600, 1866	1066,1333	1066, 1333, 1600
SRx4	2GB	4GB	8GB	1066, 1333	1066, 1333, 1600, 1866	1066,1333	1066, 1333, 1600
DRx4	4GB	8GB	16GB	1066, 1333	1066, 1333, 1600, 1866	1066,1333	1066, 1333, 1600
QRx4	8GB	16GB	32GB	800	800, 1066	800	800
QRx8	4GB	8GB	16GB	800	800, 1066	800	800

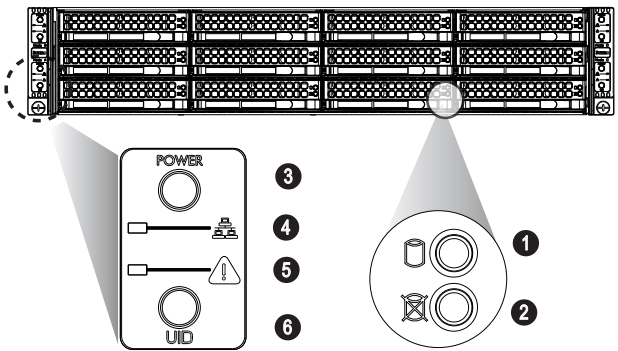
Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Nodes and Corresponding Hard Drives



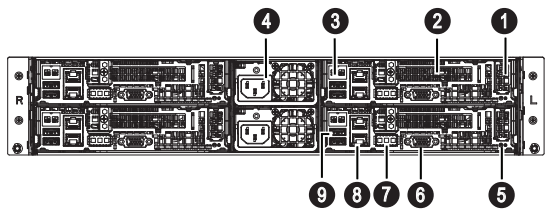
Motherboard Drawer Locations in the Chassis	
Motherboard B Controls HDDs B1 to B3	Motherboard D Controls HDDs D1 to D3
Motherboard A Controls HDDs A1 to A3	Motherboard C Controls HDDs C1 to C3

Front view & Interface



No.	Description
1	Hard Drive Signal
2	Hard Drive Fail
3	Power Button
4	LAN LED
5	Alert
6	UID

Rear View

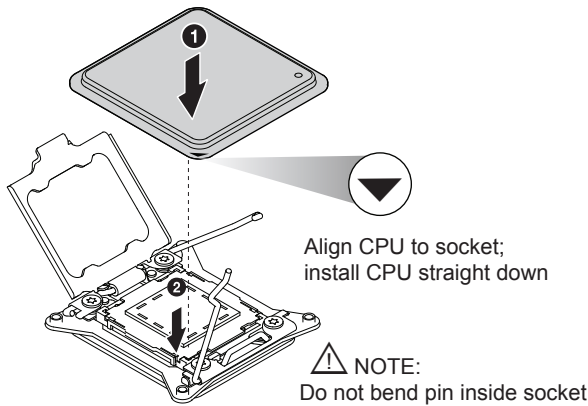


No.	Description
1	0 Slot
2	Low-Profile PCI-E Slot
3	IPMI LAN Port
4	Power Supply Module
5	UID Button
6	VGA Connector
7	InfiniBand Port (6027PR-HC0FR only)
8	G_LAN or 10G Base-T Connector (6027PR-HC0TR only)
9	USB Ports

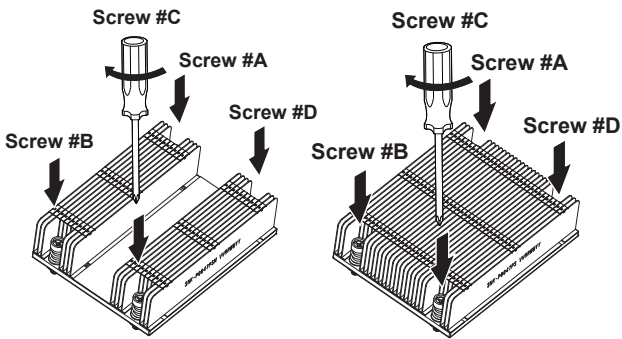
Beep Codes

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 Error	No memory detected
5 beeps and 2 short beeps	Display memory read/write error	Video adapter missing or with faulty memory
1 continuous beep	System Overheat	System Overheat

CPU Installation



Heatsink Installation



SNK-P0047PSM for CPU1 (Close to fan)
SNK-P0057PS for CPU2

- Place the heatsink on top of the installed CPU.
- Align the four screws to the socket.
- Holding the heatsink in place, 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 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>

