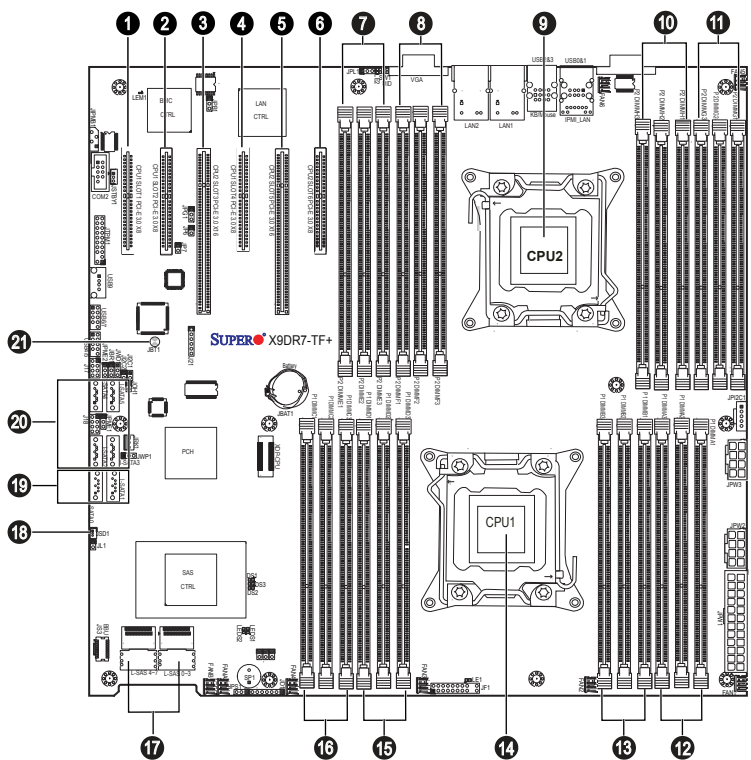


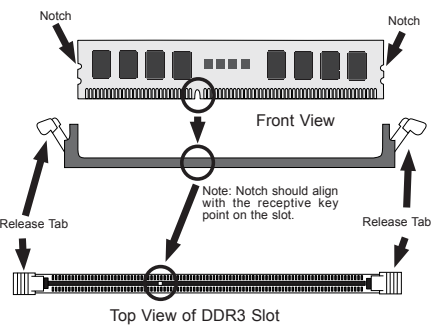
SUPERMICR SuperServer 6027R-72RFT+ Quick Reference Guide

Board Layout



No.	Description
1	CPU1 Slot1 PCI-E 3.0 x8
2	CPU1 Slot2 PCI-E 3.0 x8
3	CPU2 Slot3 PCI-E 3.0 x16
4	CPU1 Slot4 PCI-E 3.0 x8
5	CPU2 Slot5 PCI-E 3.0 x16
6	CPU2 Slot6 PCI-E 3.0 x8
7	P2-DIMME1(Blue)/P2-DIMME2/P2-DIMME3 slot
8	P2-DIMMF1(Blue)/P2-DIMMF2/P2-DIMMF3 slot
9	CPU2 slot
10	P2-DIMMH1(Blue)/P2-DIMMH2/P2-DIMMH3 slot
11	P2-DIMMG1(Blue)/P2-DIMMG2/P2-DIMMG3 slot
12	P1-DIMMA1(Blue)/P1-DIMMA2/P1-DIMMA3 slot
13	P1-DIMMB1(Blue)/P1-DIMMB2/P1-DIMMB3 slot
14	CPU1 (Install CPU1 first)
15	P1-DIMMD1(Blue)/P1-DIMMD2/P1-DIMMD3 slot
16	P1-DIMMC1(Blue)/P1-DIMMC2/P1-DIMMC3 slot
17	L-SAS 0~3, 4~7 ports
18	JSD1 = SATA DOM (Device On Module) Power Connector
19	(I-)SATA 0/1 SATA 3.0 Connectors 0/1 (Available for RAID 0, RAID 1 only, used in conjunction with T-SGPIO1)
20	(I-)SATA 2/3, I-SATA 4/5 SATA 2.0 Ports Connectors 2~5 (Available for RAID 0, 1, 5, 10 used in conjunction with T-SGPIO-S)
21	JBT1 = COMS Clear

MEMORY



Processors and their Corresponding Memory Modules											
CPU#	Corresponding DIMM Modules										
CPU 1	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2
CPU 2	E1	E2	E3	F1	F2	F3	G1	G2	G3	H1	H2

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, 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, P1-DIMME1/P1-DIMMF1, P2-DIMMC1/P2-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 ~24 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, P1-DIMMA3/P1-DIMMB3, P2-DIMME3/P2-DIMMF3, P1-DIMMC3/P1-DIMMD3, P2-DIMMG3/P2-DIMMH3

Installing UDIMM (ECC/non-ECC) Memory

Intel E5-2600 Series Processor UDIMM 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)			
				3 Slots Per Channel			
				1DPC		2DPC	
				1.35V	1.5V	1.35V	1.5V
SRx8 Non-ECC	1GB	2GB	4GB	NA	1066, 1333	NA	1066, 1333
DRx8 Non-ECC	2GB	4GB	8GB	NA	1066, 1333	NA	1066, 1333
SRx16 Non-ECC	512MB	1GB	2GB	NA	1066, 1333	NA	1066, 1333
SRx8 ECC	1GB	2GB	4GB	1066	1066, 1333	1066	1066, 1333
DRx8 ECC	2GB	4GB	8GB	1066	1066, 1333	1066	1066, 1333

Installing RDIMM (ECC) Memory

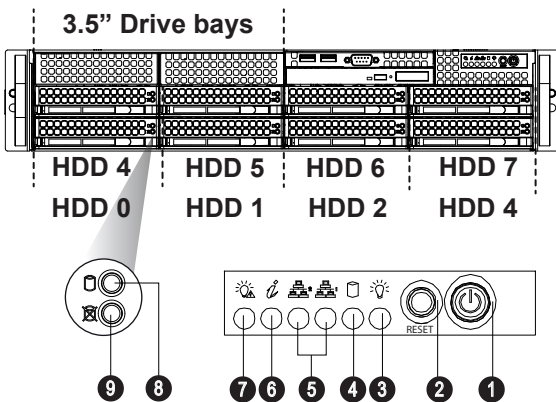
Intel E5-2600 Series Processor RDIMM Memory Support									
Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)			Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)					
				3 Slots Per Channel					
				1DPC		2DPC		3DPC	
				1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
SRx8	1GB	2GB	4GB	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	NA	800, 1066
DRx8	2GB	4GB	8GB	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	NA	800, 1066
SRx4	2GB	4GB	8GB	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	NA	800, 1066
DRx4	4GB	8GB	16GB	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	NA	800, 1066
QRx4	8GB	16GB	32GB	800	1066	800	800	NA	NA
QRx8	4GB	8GB	16GB	800	1066	800	800	NA	NA

Installing LRDIMM (ECC) Memory

Intel E5-2600 Series Processor LRDIMM 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)			
			3 Slots Per Channel			
			1DPC and 2 DPC		3DPC	
			1.35V	1.5V	1.35V	1.5V
QRx4 (DDP)	16GB	32GB	1066	1066, 1333	1066	1066
QRx8 (P)	8GB	16GB	1066	1066, 1333	1066	1066

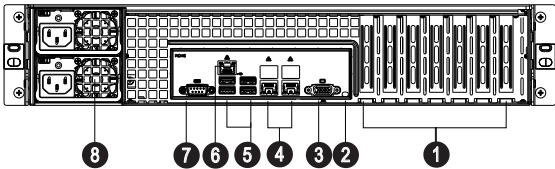
- Notes:
- For optimal memory performance, please install DIMMs in pairs (with an even number of DIMMs installed).
 - All channels in a system will run at the fastest common frequency.

Front View & Interface



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

Rear View

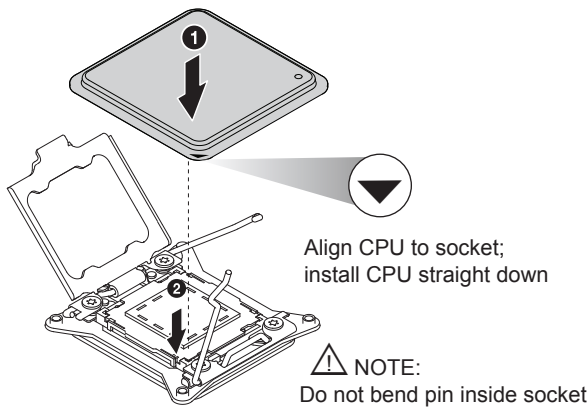


No.	Description	No.	Description
1	PCI Expansion Slots	5	USB 0/1/2/3 Ports
2	UID Button	6	Dedicated LAN for IPMI
3	VGA Port	7	COM Port
4	LAN 1/2 Ports	8	Redundant Power Supply Module

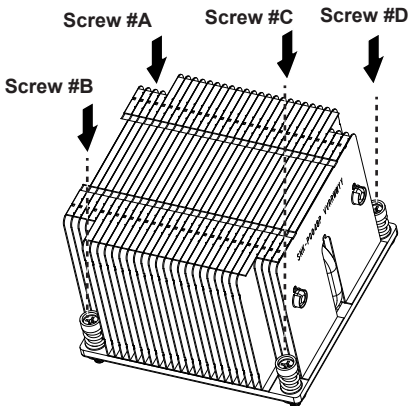
Beep Codes

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.
1 Continuous beep	System OH	System Overheat

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>

