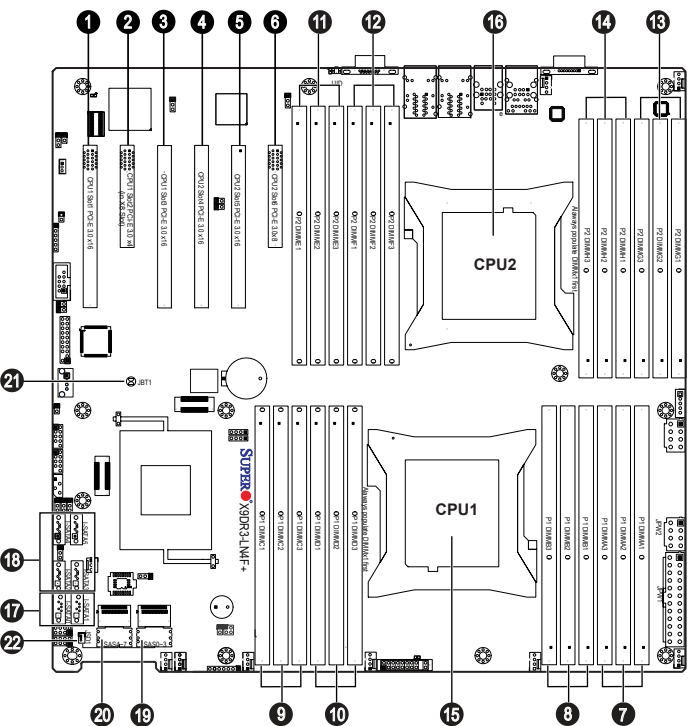


SUPERMICR SuperServer 7047R-3RF4+ Quick Reference Guide

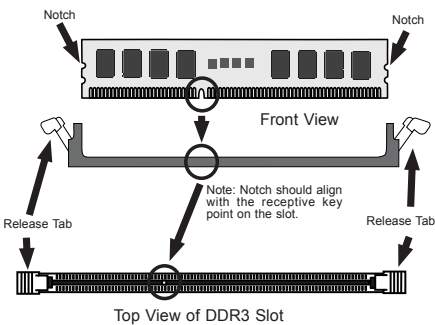
Board Layout



Note: Install CPU1 first

No.	Description
1	CPU1 Slot1 PCI-E 3.0 x16
2	CPU1 Slot2 PCI-E 3.0 x4 (in x8)
3	CPU1 Slot3 PCI-E 3.0 x16
4	CPU2 Slot4 PCI-E 3.0 x16
5	CPU2 Slot5 PCI-E 3.0 x16
6	CPU2 Slot6 PCI-E 3.0 x8
7	DIMMA1(Blue)/DIMMA2/DIMMA3 slot
8	DIMMB1 (Blue)/DIMMB2/DIMMA3 slot
9	DIMMC1 (Blue)/DIMMC2/DIMMC3 slot
10	DIMMD1 (Blue)/DIMMD2/DIMMD3 slot
11	DIMME1 (Blue)/DIMME2/DIMME3 slot
12	DIMMF1 (Blue)/DIMMF2/DIMMF3 slot
13	DIMMG1 (Blue)/DIMMG2/DIMMG3 slot
14	DIMMH1 (Blue)/DIMMH2/DIMMH3 slot
15	CPU1 (Install CP1 first)
16	CPU2
17	(I-)SATA 3.0 Ports #0 ~ #1
18	(I-)SATA 2.0 Ports #2 ~ #5
19	SAS #0 ~ #3 Ports
20	SAS #4 ~ #7 Ports
21	JBT1 = Clear CMOS
22	JSD1 = SATA DOM Power Connector

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, 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 & 13-24 DIMMs	CPU1 + CPU2 & P1-DIMMA1/P1-DIMMB1, P2-DIMME1/P2-DIMMF1, P1-DIMMC1/P1-DIMMD1, P2-DIMMG1/P2-DIMMH1, P2-DIMMA2/P2-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

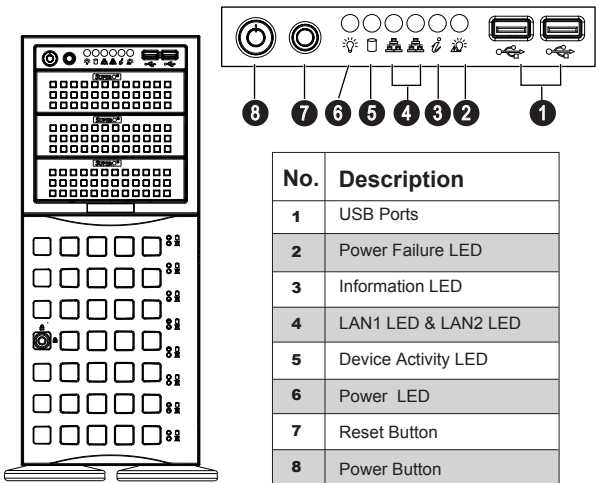
Intel E5-2600 Series Processor RDIMM Memory Support							
Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)		Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)				
			2 Slots Per Channel				
			1DPC		1DPC		2DPC
			1.35V	1.5V	1.35V	1.5V	
SRx8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

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 2DPC		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

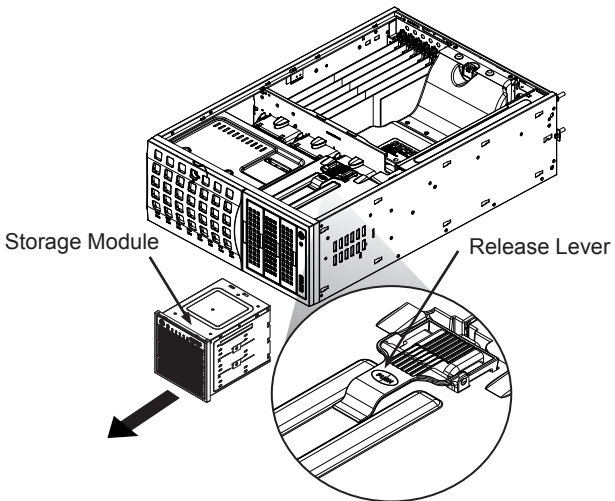
Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Front View & Interface



No.	Description
1	USB Ports
2	Power Failure LED
3	Information LED
4	LAN1 LED & LAN2 LED
5	Device Activity LED
6	Power LED
7	Reset Button
8	Power Button

Rotating the Storage Module



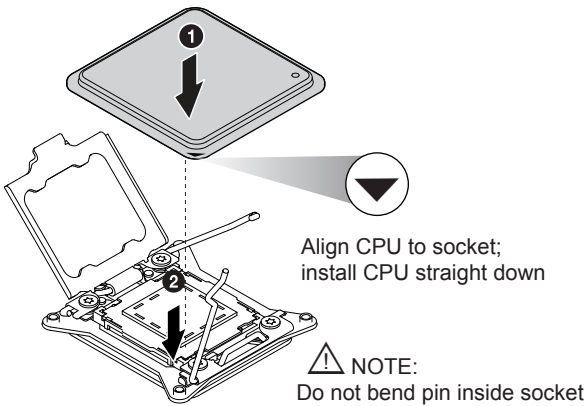
Rotating the Storage Module for Rack Mounting

1. Open the chassis cover.
2. Locate the storage module and disconnect any cables from the storage module to any component in the chassis.
3. Push the storage module release lever. This lever unlocks the storage module
4. Grasp the external edges of the storage module and pull the unite from the chassis
5. Turn the storage module 90 degrees
6. Reinsert the module into the chassis and reconnect the cords

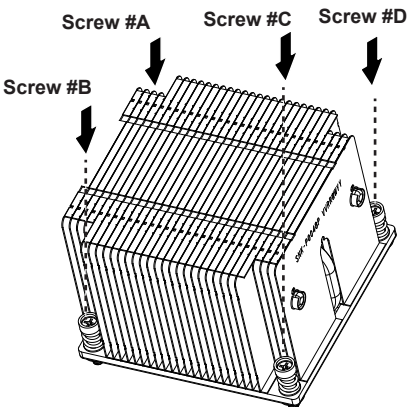
Beep Codes

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 + 2 short beeps	Display memory read/write status	Video adapter missing or with faulty memory
1 continuous beep	System	System overheat

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>

