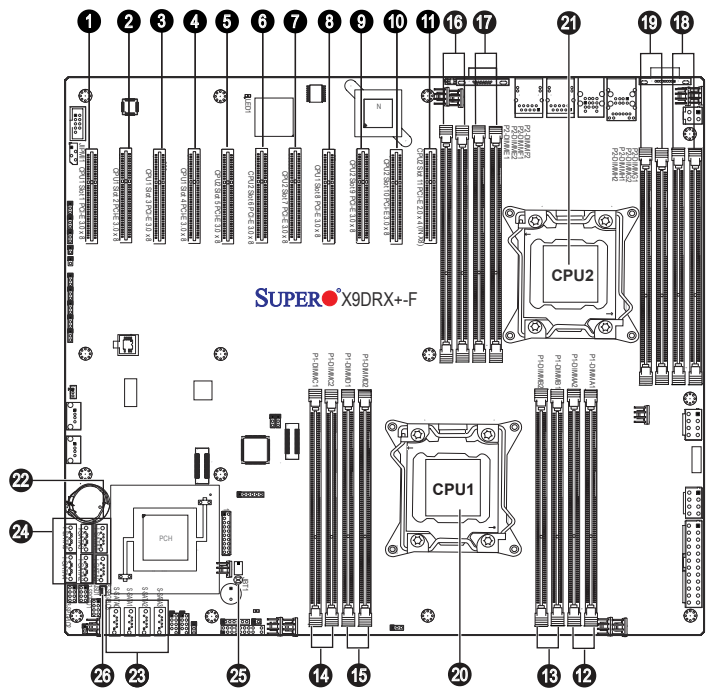
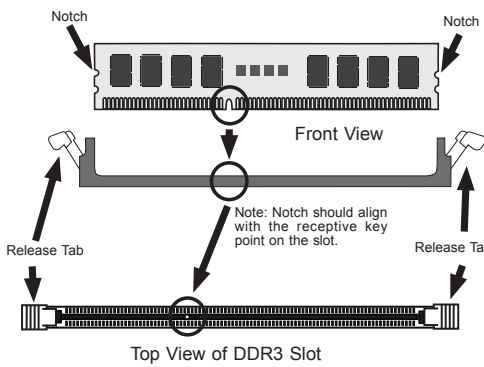


Board Layout



No.	Description
1	CPU1 Slot1 PCI-E 3.0 x8
2	CPU1 Slot2 PCI-E 3.0 x8
3	CPU1 Slot3 PCI-E 3.0 x8
4	CPU1 Slot4 PCI-E 3.0 x8
5	CPU2 Slot5 PCI-E 3.0 x8
6	CPU2 Slot6 PCI-E 3.0 x8
7	CPU2 Slot7 PCI-E 3.0 x8
8	CPU1 Slot8 PCI-E 3.0 x8
9	CPU2 Slot9 PCI-E 3.0 x8
10	CPU2 Slot10 PCI-E 3.0 x8
11	CPU2 Slot11 PCI-E 2.0 x4 (in x8)
12	DIMMA1 (Blue)/DIMMA2 slot
13	DIMMB1 (Blue)/DIMMB2 slot
14	DIMMC1 (Blue)/DIMMC2 slot
15	DIMMD1 (Blue)/DIMMD2 slot
16	DIMME1 (Blue)/DIMME2 slot
17	DIMMF1 (Blue)/DIMM F2 slot
18	DIMMG1 (Blue)/DIMM G2 slot
19	DIMMH1 (Blue)/DIMM H2 slot
20	CPU1 (it must be installed on it first)
21	CPU2
22	(I-)SATA 3.0 Ports #0~1
23	(S-)SATA 2.0 Ports #0~4
24	(I-)SATA 2.0 Ports #2~5 from Intel PCH (Color: Black)
25	JBT1 = Clear CMOS
26	JSD1 = SATA Device Power Connector

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	P1-DIMMD2
CPU 2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	P2-DIMMG2	P2-DIMMH2

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 slots
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 & 10-16 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

Installing UDIMM (ECC/non-ECC) Memory

Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)		
SRx8 Non-ECC	1GB	2GB	4GB
DRx8 Non-ECC	2GB	4GB	8GB
SRx16 Non-ECC	512MB	1GB	2GB
SRx8 ECC	1GB	2GB	4GB
DRx8 ECC	2GB	4GB	8GB

Note: 1GB/2GB/4GB DRAMs are supported; however, only 2GB and 4GB DRAMs are validated.

Installing RDIMM (ECC) Memory

Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)		
SRx8	1GB	2GB	4GB
DRx8	2GB	4GB	8GB
SRx4	2GB	4GB	8GB
DRx4	4GB	8GB	16GB
QRx4	8GB	16GB	32GB
QRx8	4GB	8GB	16GB

Note: 1. 1GB/2GB/4GB DRAMs are supported; however, only 2GB and 4GB DRAMs are validated.
2. QR RIMMs are supported but not validated. Memory testing are limited to system level testing. Signal integrity testing in interoperability testing are not performed. The passing QR RIMMs will be posted on the website.

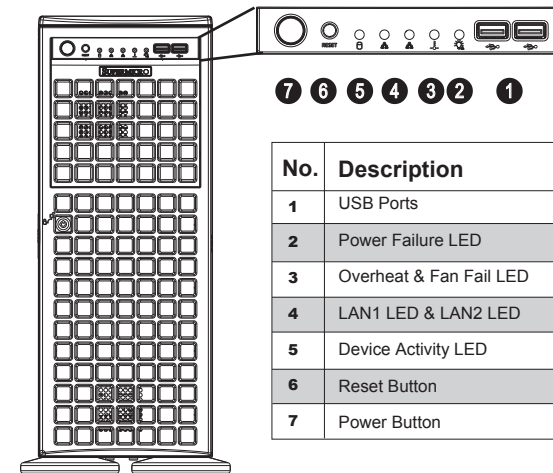
Installing LRDIMM (ECC) Memory

Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)	
QRx4 (DDP)	16GB	32GB
QRx8 (P)	8GB	16GB

Note:
1. Physical Rank is used to calculate DIMM capacity.
2. Command Address Timing is 1N.
3. Only 2GB/4GB DRAMs are supported and validated.
4. The speeds listed are estimated only and will be verified through simulation.
5. DDP is for Dual Die package DRAM stacking.
6. "P" Means "Planer Monolithic DRAM Die"

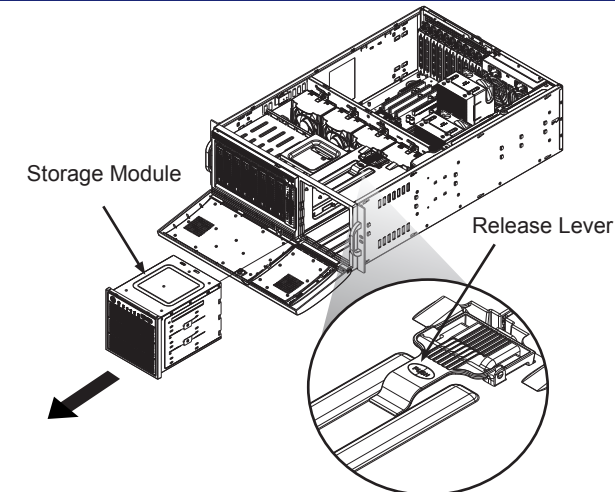
Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Front View & Interface



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

Rotating the Storage Module



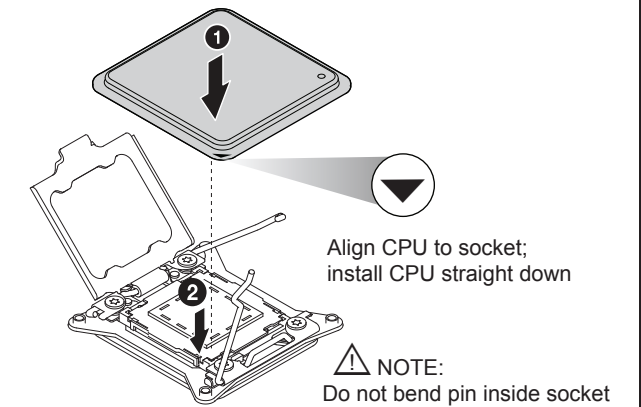
Rotating the Storage Module for Rack Mounting

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 unit from the chassis
5. Turn the storage module 90 degrees
6. Reinsert the module into the chassis and reconnect the cords

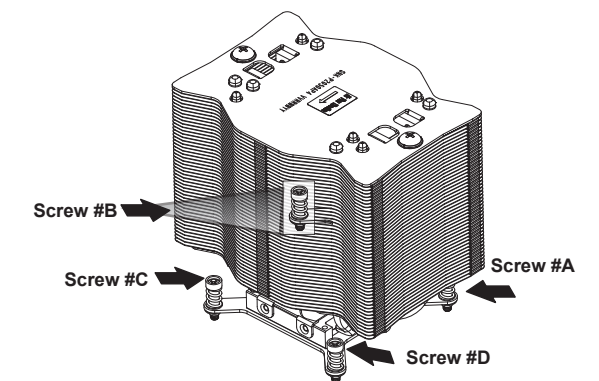
Beep Codes

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/ft 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>

