Board Layout

SUPER® X9DRD-iF

CPU2

CPU1

Note: Install CPU1 first

No.	Description
1	CPU1 Slot3 PCI-E 3.0 x8
2	CPU1 Slot4 PCI-E 3.0 x8
3	CPU1 Slot5 PCI-E 3.0 x8
4	CPU2 Slot6 PCI-E 3.0 x16
5	CPU2 Slot7 PCI-E 3.0 x8
6	DIMMA1 slot
7	DIMMB1 slot
8	DIMMC1 slot
9	DIMMD1 slot
10	DIMME1 slot
11	DIMMF1 slot
12	DIMMG1 slot
13	DIMMH1 slot
14	CPU1 (Install CPU1 first)
15	CPU2
16	SATA 3.0 (I-SATA0)
17	SATA 3.0 (I-SATA1)
18	SATA 2.0 (I-SATA2)
19	SATA 2.0 (I-SATA3)
20	SATA 2.0 (I-SATA4)
21	SATA 2.0 (I-SATA5)
22	JBT1 = CMOS Reset
23	SATA DOM Power

MEMORY

Notch   Notch

Front View

Release Tab   Release Tab

Note: Notch should align with the receptive key point on the slot.

Top View of DDR3 Slot
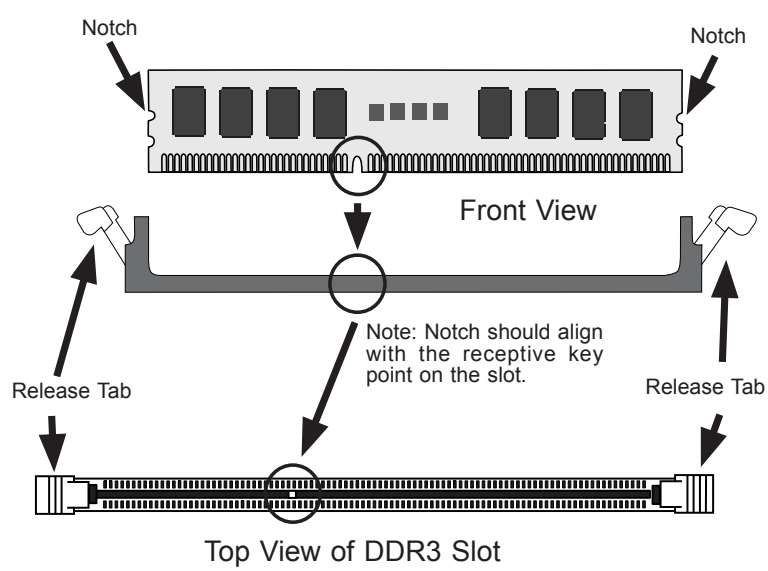
Processors and their Corresponding Memory Modules

CPU#	Corresponding DIMM Modules			
CPU1	P2-DIMMA1	P2-DIMMB1	P2-DIMMC1	P2-DIMMD1
CPU2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1

Processor and Memory Module Population

| Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For optimal performance, 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
2 CPUs & 2 DIMMs	CPU1 + CPU2 P1-DIMMA1, P2-DIMME1
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, P2-DIMME1/P2-DIMMF1/P2-DIMMG1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1

RDIMM Support on the E5-2600 Series Processor Platform

DIMM Slots per Channel	DIMMs Populated per DDR Channel	RDIMM/LRDIMM Type (RDIMM: Reg.= Registered, LRDIMM=Load Reduced)	Speeds (in MHz)	Ranks per DIMM (Any Combination)
1	1	Reg. ECC DDR3	800/1066/1333/1600	SR, DR, or QR

Population Rules:
1. Any combination of x4 and x8 RDIMMs with 1 Gb or 2 Gb DRAM Density are supported.
2. Populate DIMMs starting with DIMM# A1.
3. When mixing QR with SR or DR, put the QR in DIMM#A1 first.

Front View & Interface

HDD 0   HDD 1   HDD 2   HDD 3
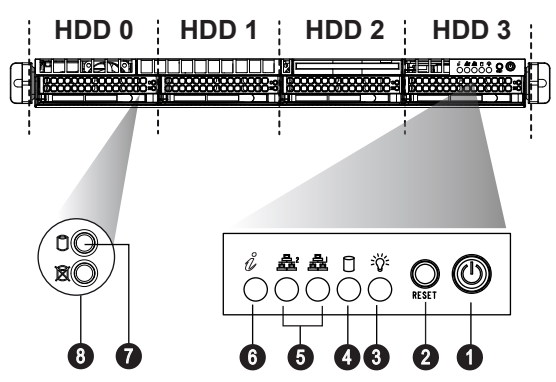
No.	Description
1	Power Button
2	Reset Button
3	Power LED
4	Device Activity LED
5	LAN1 LED & LAN2 LED
6	Information LED
7	Hard Drive Signal
8	Hard Drive Fail

Rear View
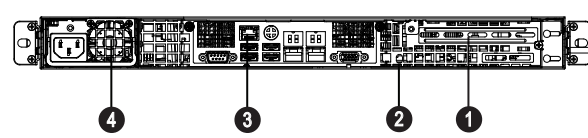
No.	Description
1	PCI Expansion Slot (w/riser card)
2	UID Button
3	Dedicated LAN for IPMI
4	Power Supply Module

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

Align CPU to socket; install CPU straight down

⚠ NOTE: Do not bend pin inside socket

Heatsink Installation

Screw #C   Screw #A

Screw #B   Screw #D
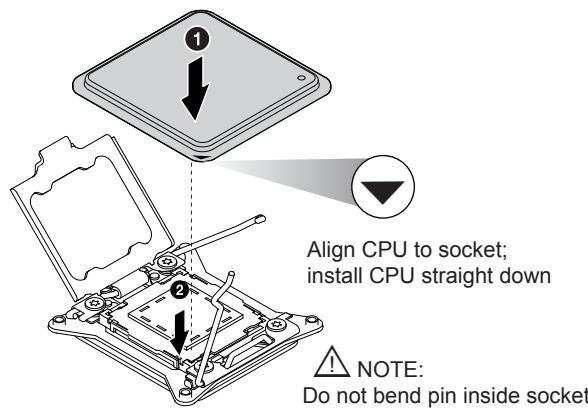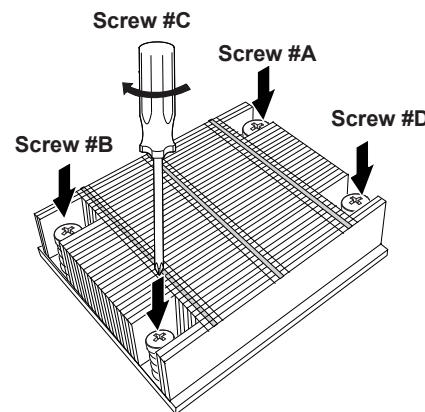
1. Place heatsink on top of installed CPU
2. Line up the four screws to socket
3. Push down heatsink and screw down as shown (cross pattern, in order: A, C, B, D)
4. NOTE: Only use 6-8 lb/f of torque; otherwise, hand-tighten each screw, to avoid damaging the system

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