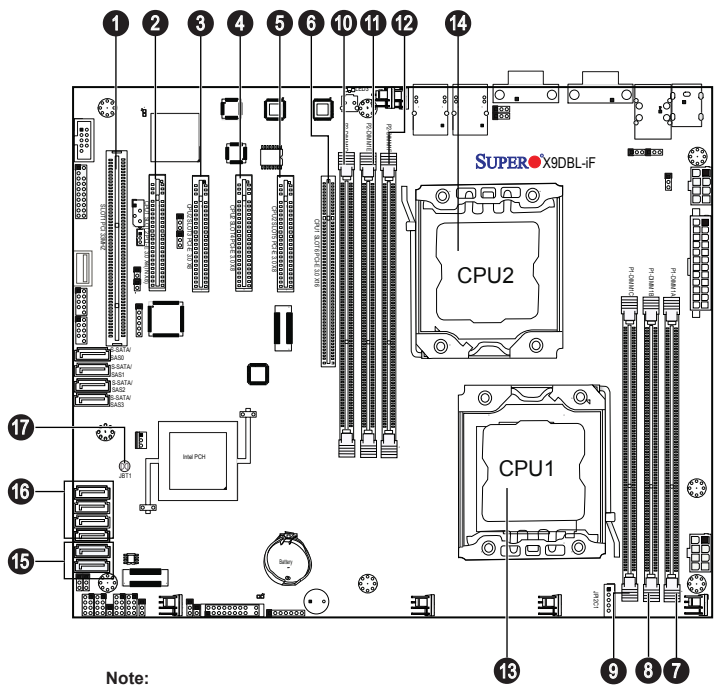


SUPERMICR[®] SuperServer 1027B-MTF Quick Reference Guide

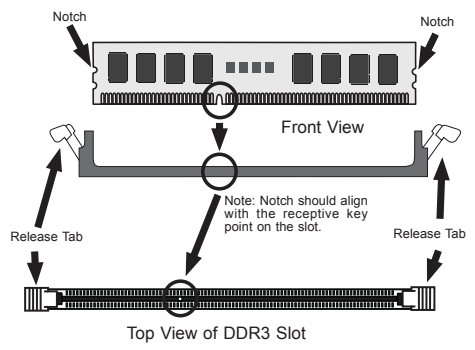
Board Layout



Note:
Install CPU1 first

No.	Description
1	Slot1 PCI 33MHz
2	CPU1 Slot2 PCI-E 3.0 x4 (in x8)
3	CPU2 Slot3 PCI-E 3.0 x8
4	CPU2 Slot4 PCI-E 3.0 x8
5	CPU2 Slot5 PCI-E 3.0 x8
6	CPU1 Slot6 PCI-E 3.0 x16
7	P1-DIMM1A slot
8	P1-DIMM1B slot
9	P1-DIMM1C slot
10	P1-DIMM1D slot
11	P2-DIMM1E slot
12	P2-DIMM1F slot
13	CPU1 (Install CPU1 first)
14	CPU2
15	I-SATA 0/1 are SATA 3.0 ports
16	I-SATA 2~5 are SATA 2.0 ports
17	JBT1 = CMOS Reset
18	JDS1 = SATA DOM Power

MEMORY



Processors and their Corresponding Memory Modules			
CPU#	Corresponding DIMM Modules		
CPU 1	P1-DIMM1A	P1-DIMM1B	P1-DIMM1C
CPU 2	P2-DIMM1D	P2-DIMM1E	P2-DIMM1F

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 & 1 DIMMs	CPU1 & P1-DIMM1A
1 CPU & 2 DIMMs	CPU1 & P1-DIMM1A, P1-DIMM1B
1 CPU & 3 DIMMs	CPU1 & P1-DIMM1A, P1-DIMM1B, P1-DIMM1C
2 CPUs & 2 DIMMs	CPU1 + CPU2 & P1-DIMM1A, P2-DIMM1D
2 CPUs & 3 DIMMs	CPU1 + CPU2 & P1-DIMM1A, P2-DIMM1D/P1-DIMM1B
2 CPUs & 4 DIMMs	CPU1 + CPU2 & P1-DIMM1A, P2-DIMM1D, P1-DIMM1B, P2-DIMM1E
2 CPUs & 5 DIMMs	CPU1 + CPU2 & P1-DIMM1A, P2-DIMM1D, P1-DIMM1B, P2-DIMM1E, P1-DIMM1C
2 CPUs & 6 DIMMs	CPU1 + CPU2 & P1-DIMM1A, P1-DIMM1D, P1-DIMM1B, P2-DIMM1E, P1-DIMM1C, P2-DIMM1F

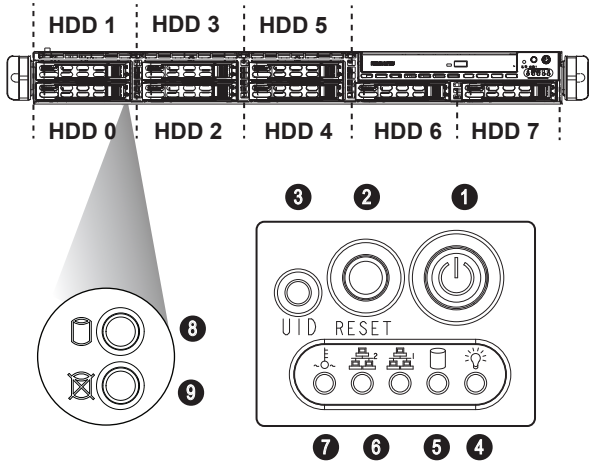
Intel E5-2400 Series Processor UDIMM Memory Support					
Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)			1 Slot Per Channel	
				1DPC	
				1.35V	1.5V
SRx8 Non-ECC	1GB	2GB	4GB	NA	1066, 1333
DRx8 Non-ECC	2GB	4GB	8GB	NA	1066, 1333
SRx16 Non-ECC	512MB	1GB	2GB	NA	1066, 1333
SRx8 ECC	1GB	2GB	4GB	1066, 1333	1066, 1333
DRx8 ECC	2GB	4GB	8GB	1066, 1333	1066, 1333

Intel E5-2400 Series Processor RDIMM Memory Support					
Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)			1 Slot Per Channel	
				1DPC	
				1.35V	1.5V
SRx8	1GB	2GB	4GB	1066, 1333	1066, 1333, 1600
DRx8	2GB	4GB	8GB	1066, 1333	1066, 1333, 1600
SRx4	2GB	4GB	8GB	1066, 1333	1066, 1333, 1600
DRx4	4GB	8GB	16GB	1066, 1333	1066, 1333, 1600
QRx4	8GB	16GB	32GB	800	800
QRx8	4GB	8GB	16GB	800	800

Intel E5-2400 Series Processor RDIMM Memory Support					
Ranks per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)			1 Slot Per Channel	
				1DPC	
				1.35V	1.5V
QRx4 (DDP)	16GB	32GB		1066	1066, 1333
QRx8 (P)	8GB	16GB		1066	1066, 1333

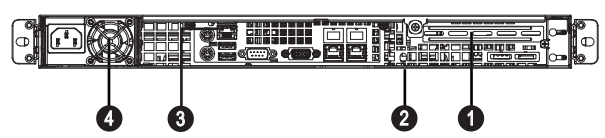
Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Front View & Interface



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

Rear View

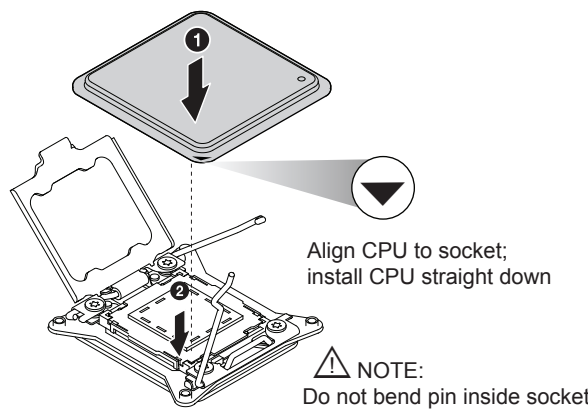


No.	Description
1	PCI Expansion Slot (w/riser card)
2	UID Button
3	Dedicated LAN for IPMI
4	Power Supply Module

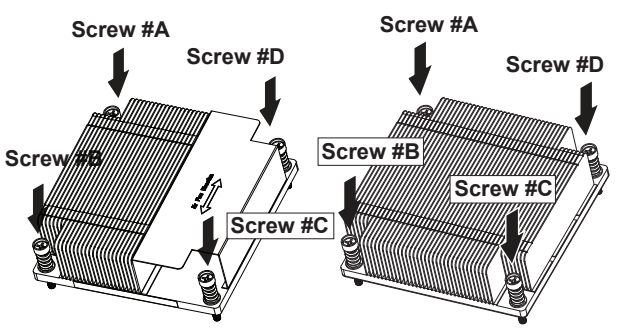
Beep Codes

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



Heatsink Installation



SNK-P0041 for CPU1 SNK-P0037P for CPU2

- 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/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>