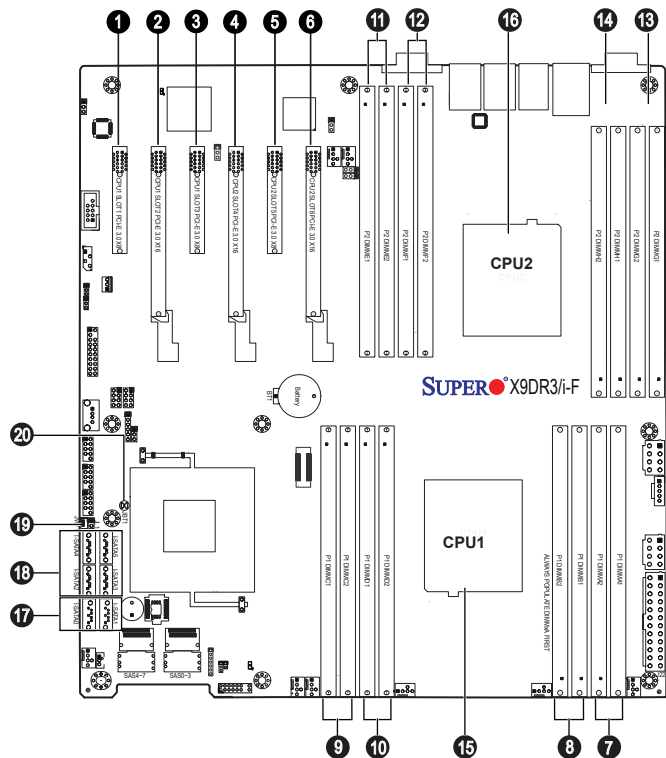


SUPERMICR[®] SuperServer 7047R-TRF Quick Reference Guide

Board Layout



No.	Description
1	CPU1 Slot1 PCI-E 3.0 x8
2	CPU1 Slot2 PCI-E 3.0 x16
3	CPU1 Slot3 PCI-E 3.0 x8
4	CPU2 Slot4 PCI-E 3.0 x16
5	CPU2 Slot5 PCI-E 3.0 x8
6	CPU2 Slot6 PCI-E 3.0 x16
7	DIMMA1 (Blue)/DIMMA2 slot
8	DIMMB1 (Blue)/DIMMB2 slot
9	DIMMC1 (Blue)/DIMMC2 slot
10	DIMMD1 (Blue)/DIMMD2 slot
11	DIMME1 (Blue)/DIMME2 slot
12	DIMMF1 (Blue)/DIMMF2 slot
13	DIMMG1 (Blue)/DIMMG2 slot
14	DIMMH1 (Blue)/DIMMH2 slot
15	CPU1 (Install CP1 first)
16	CPU2
17	(L)-SATA 0/1 Intel SB SATA 3.0 Connectors 0/1 (Color: White)
18	(L)-SATA 2/5 Intel SB SATA 2.0 Connectors: 2/4 (Color: Black)
19	JBT1 = Clear CMOS
20	JSD1 = SATA Device Power Connector

MEMORY

Processors and their Corresponding Memory Modules								
CPU#	Corresponding DIMM Modules							
CPU1	P1-A1	P1-B1	P1-C1	P1-D1	P1-A2	P1-B2	P1-C2	P1-D2
CPU2	P2-E1	P2-F1	P2-G1	P2-H1	P2-E2	P2-F2	P2-G2	P2-H2

Processor and Memory Module Population	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (*For memory to work proper, please install DIMMs in pairs)
1 CPU & 2 DIMMs	CPU1 P1-A1/P1-B1
1 CPU & 4 DIMMs	CPU1 P1-A1/P1-B1, P1-C1/P1-D1
1 CPU & 5~8 DIMMs	CPU1 P1-A1/P1-B1, P1-C1/P1-D1 + Any memory pairs in P1-A2/-B2/-C2/-D2 DIMM slots
2 CPUs & 4 DIMMs	CPU1 + CPU2 P1-A1/P1-B1, P2-E1/P2-F1
2 CPUs & 6 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1/P2-G1/P2-H1
2 CPUs & 10~16 DIMMs	CPU1/CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1/P2-G1/P2-H1 + Any memory pairs in P1, P2 DIMM slots
2 CPUs & 16 DIMMs	CPU1/CPU2 P1-A1/P1-B1/P1-C1/P1-D1, P2-E1/P2-F1/P2-G1/P2-H1, P1-A2/P1-B2/P1-C2/P1-D2, P2-E2/P2-F2/P2-G2/P2-H2

DIMM Module Population Configuration

For memory to work properly, follow the tables below for memory installation:

RDIMM Support POR on the E5-2600 Series Processor Platform				
DIMM Slots per Channel	DIMMs Populated per DDR Channel	RDIMM Type (RDIMM: Reg.= Registered)	POR Speeds (in MHz)	Ranks per DIMM (Any Combination)
1	1	Reg. ECC DDR3	800/1066/1333/1600	SR, DR, or QR
2	1	Reg. ECC DDR3	800/1066/1333/1600	SR, DR, or QR
2	2	Reg. ECC DDR3	800/1066/1333/1600	Mixing SR, DR, QR

Population Rules:

- Any combination of x4 and x8 RDIMMs with 1 Gb or 2 Gb DRAM Density are supported.
- Populate DIMMs starting with DIMM A1.
- When mixing QR with SR or DR on the same DDR channel, put the QR in DIMMA1 first.

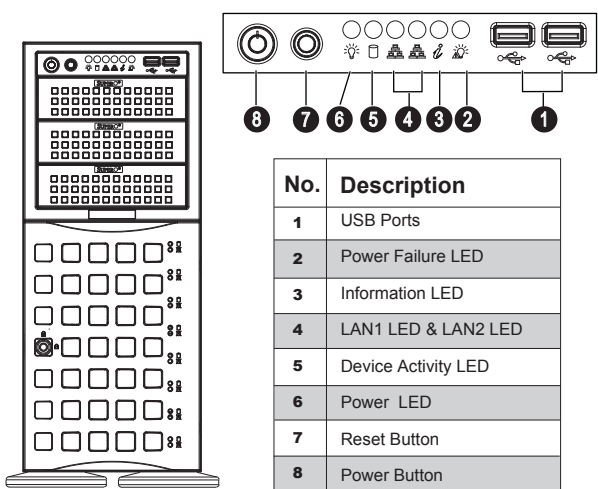
Note: For the memory modules to work properly, please install DIMM modules in pairs (with an even number of DIMMs installed).

Note: All channels in a system will run at the fastest common frequency.

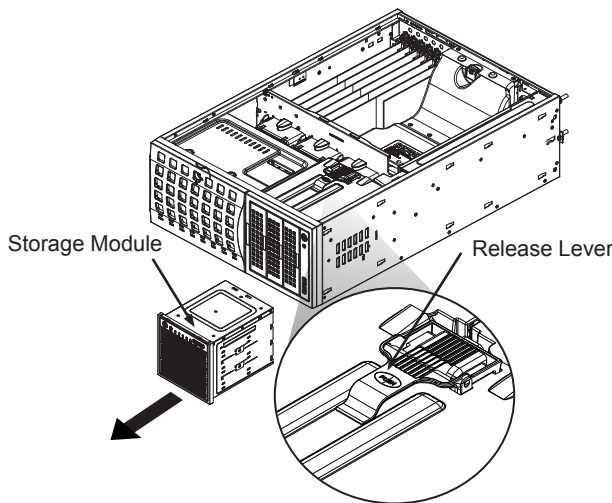
Possible System Memory Allocation & Availability		
System Device	Size	Physical Memory Available (4 GB Total System Memory)
Firmware Hub flash memory (System BIOS)	1 MB	3.99 GB
Local APIC	4 KB	3.99 GB
Area Reserved for the chipset	2 MB	3.99 GB
I/O APIC (4 Kbytes)	4 KB	3.99 GB
PCI Enumeration Area 1	256 MB	3.76 GB
PCI Express (256 MB)	256 MB	3.51 GB
PCI Enumeration Area 2 (if needed) -Aligned on 256-M boundary-	512 MB	3.01 GB
VGA Memory	16 MB	2.85 GB
TSEG	1 MB	2.84 GB
Memory available for the OS & other applications		2.84 GB

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



Rotating the Storage Module



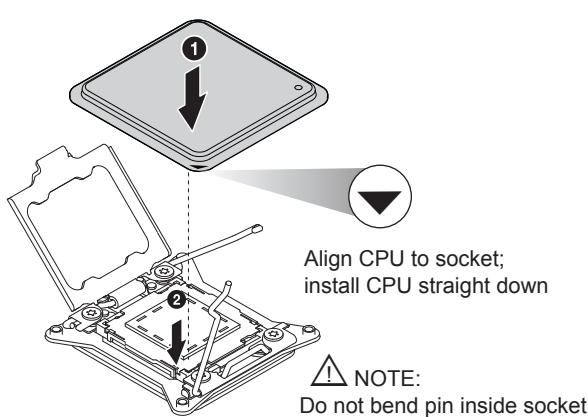
Rotating the Storage Module for Rack Mounting

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

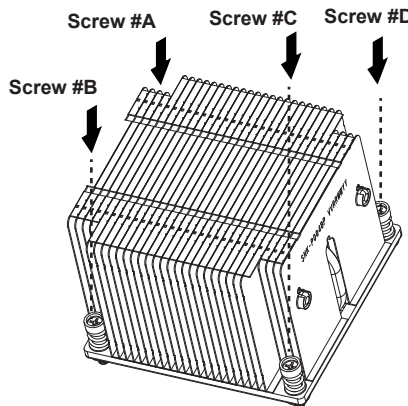
Beeper Codes

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



- 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>

