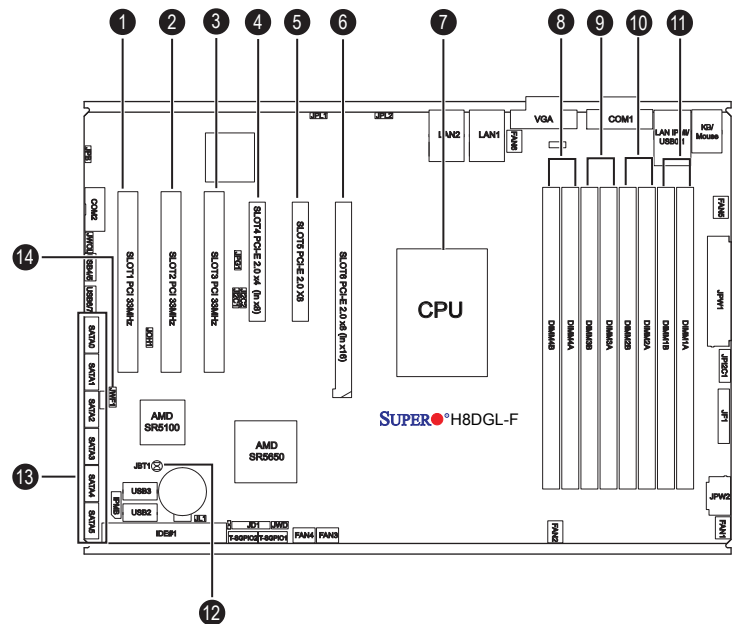


SUPERMICR[®] SuperServer 1012G-MTF Quick Reference Guide

Board Layout

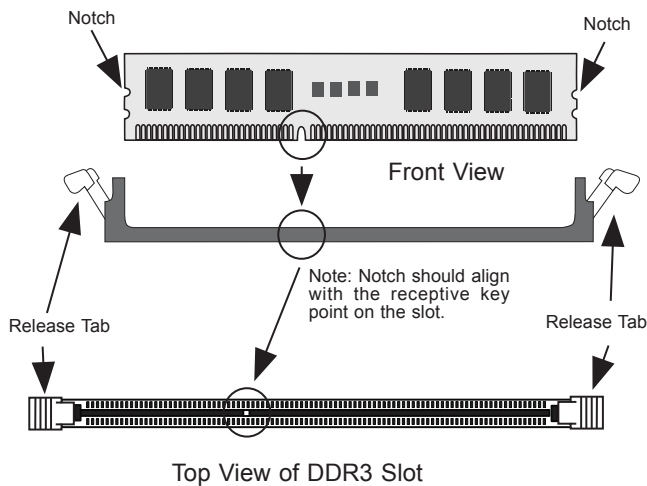


No.	Description
1	Slot1 PCI 33MHz
2	Slot2 PCI 33MHz
3	Slot3 PCI 33MHz
4	Slot4 PCI-E 2.0 x4 (in x8)
5	Slot5 PCI-E 2.0 x8
6	Slot6 PCI-E 2.0 x8 (in x16)
7	CPU
8	DIMM4A (BLUE)/DIMM4B slot
9	DIMM3A (BLUE)/DIMM3B slot
10	DIMM2A (BLUE)/DIMM2B slot
11	DIMM1A (BLUE)/DIMM1B slot
12	JBT1: CMOS Clear
13	SATA0/SATA1/SATA2/SATA3/SATA4/SATA5
14	JSD1 = Disk On Module (DOM) Power

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	Display memory read/write status	Video adapter missing or with faulty memory
1 beep per device	Refresh	1 beep for each USB device
OH LED On	System	System overheat

MEMORY



Memory Population for Optimal Performance -For a Motherboard with One CPU (CPU1) Installed

# DIMMS	CPU	Channel 1		Channel 2		Channel 3		Channel 4	
4 DIMMs	CPU1	P1-1A		P1-2A		P1-3A		P1-4A	
8 DIMMs	CPU1	P1-1A	P1-1B	P1-2A	P1-2B	P1-3A	P1-3B	P1-4A	P1-4B

Note: Memory speed support is dependent on the type of CPU used on the board.

DIMM Module Population Configuration

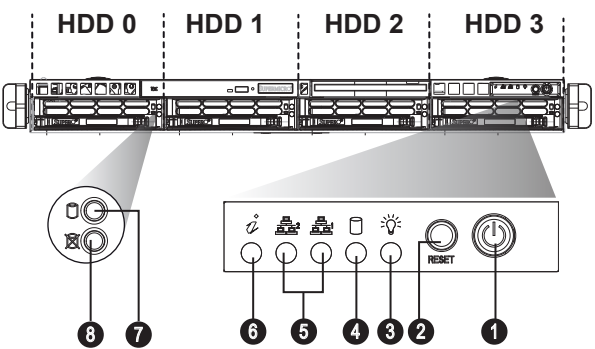
For memory to work properly, follow the tables below for memory installation:

Per Channel DIMM Populations Options					
DIMM Type	DIMM A	DIMM B	Max. MHz, 1.5V DIMMs	Max. MHz, 1.35V DIMMs	Max. GB/ Channel
UDIMM	SR or DR	Empty	1600 MHz		8 GB
	SR	SR	1600 MHz	1333 MHz	8 GB
	DR	DR	1333 MHz		16 GB
RDIMM	SR or DR	Empty	1600 MHz		16 GB
	SR	SR	1600 MHz	1333 MHz	16 GB
	DR	DR	1600 MHz		32 GB
	QR	Empty	1333 MHz	1066 MHz	32 GB
LRDIMM	QR	QR	1066 MHz	800 MHz	64 GB
	QR	Empty		1333 MHz	32 GB
	QR	QR		1333 MHz	64 GB

Note 1: Due to OS limitations, some operating systems may not show more than 4 GB of memory.

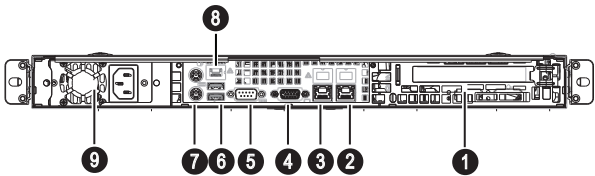
Note 2: Due to memory allocation to system devices, the amount of memory that remains available for operational use will be reduced when 4 GB of RAM is used. The reduction in memory availability is disproportional.

Front view & Interface



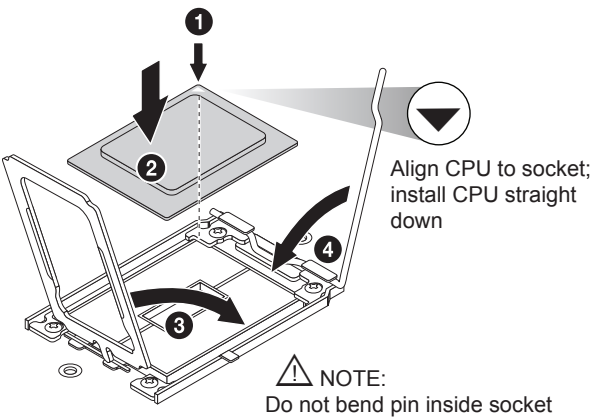
No.	Description
1	Power Button
2	Reset Button
3	Power LED
4	Device Activity LED
5	LAN1 LED & LAN2 LED
6	Information LED
7	Hard Drive Signal
8	Hard Drive Fail

Rear View

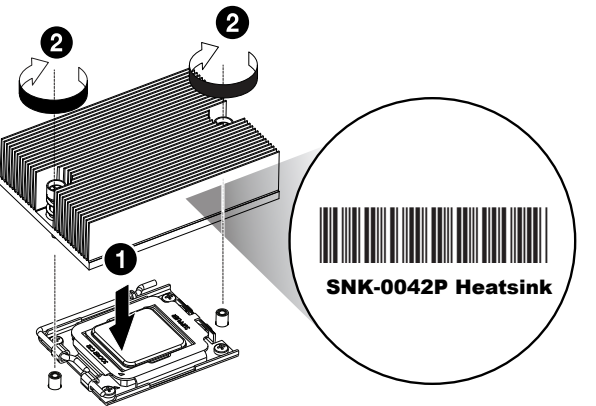


No.	Description
1	PCI-E Expansion Slot (w/riser card)
2	GbE LAN2 Port
3	GbE LAN1 Port
4	VGA Port
5	COM1 Port
6	USB 0/1 Ports
7	PS2 keyboard (purple) & Mouse (green) Ports
8	Dedicated LAN for IPMI
9	Single Power Supply Module

CPU Installation



Heatsink Installation



Attach the barcode label as illustrated

1. Place heatsink on top of installed CPU
2. Line up the two screws to socket
3. Push down heatsink and screw down as shown
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>

