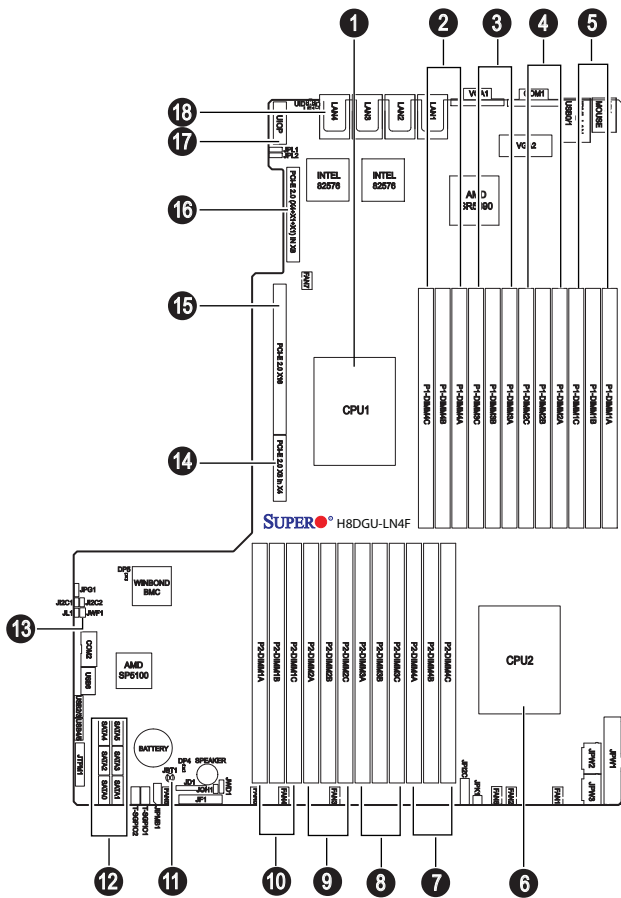


SUPERMICR A+ Server 2022G-URF4+ Quick Reference Guide

Board Layout



No.	Description
1	CPU1
2	P1-DIMM4A/P1-DIMM4B/P1-DIMM4C
3	P1-DIMM3A/P1-DIMM3B/P1-DIMM3C
4	P1-DIMM2A/P1-DIMM2B/P1-DIMM2C
5	P1-DIMM1A/P1-DIMM1B/P1-DIMM1C
6	CPU2
7	P2-DIMM4A/P2-DIMM4B/P2-DIMM4C
8	P2-DIMM3A/P2-DIMM3B/P2-DIMM3C
9	P2-DIMM2A/P2-DIMM2B/P2-DIMM3C
10	P2-DIMM1A/P2-DIMM1B/P2-DIMM1C
11	JBT1 = CMOS Clear
12	SATA0/SATA1/SATA2/SATA3/SATA4/SATA5
13	JWF1 = Compact Flash Card Power Connector
14	PCI-E 2.0 x8 in x4
15	PCI-E 2.0 x16
16	PCI-E 2.0 (x4 + x1 + x1) in x8
17	UIOP Universal I/O power connector
18	LAN1/2/3/4 (Gigabit Ethernet (RJ45) Ports)

MEMORY

Memory Population for Optimal Performance For a Motherboard with One CPU (CPU1) Installed												
DIMM #	Channel 1			Channel 2			Channel 3			Channel 4		
4 DIMMs	P1-1A			P1-2A			P1-3A			P1-4A		
8 DIMMs	P1-1A		P1-1C	P1-2A		P1-2C	P1-3A		P1-3C	P1-4A		P1-4C
12 DIMMs	P1-1A	P1-1B	P1-1C	P1-2A	P1-2B	P1-2C	P1-3A	P1-3B	P1-3C	P1-4A	P1-4B	P1-4C

Memory Population for Optimal Performance For a Motherboard with Two CPUs (CPU1 & CPU2) Installed												
CPU	Channel 1			Channel 2			Channel 3			Channel 4		
8 DIMMs												
CPU1	P1-1A			P1-2A			P1-3A			P1-4A		
CPU2	P2-1A			P2-2A			P2-3A			P2-4A		
16 DIMMs												
CPU1	P1-1A		P1-1C	P1-2A		P1-2C	P1-3A		P1-3C	P1-4A		P1-4C
CPU2	P2-1A		P2-1C	P2-2A		P2-2C	P2-3A		P2-3C	P2-4A		P2-4C
24 DIMMs												
CPU1	P1-1A	P1-1B	P1-1C	P1-2A	P1-2B	P1-2C	P1-3A	P1-3B	P1-3C	P1-4A	P1-4B	P1-4C
CPU2	P2-1A	P2-1B	P2-1C	P2-2A	P2-2B	P2-2C	P2-3A	P2-3B	P2-3C	P2-4A	P2-4B	P2-4C

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	DIMM C	Max. MHz, 1.5V DIMMs	Max. MHz, 1.35V DIMMs	Max. GB/ Channel
Unbuffered DIMM	SR or DR	Empty	Empty	1600 MHz	1333 MHz	8 GB
	SR	Empty	SR	1600 MHz	1333 MHz	8 GB
	DR	Empty	DR	1333 MHz	1333 MHz	16 GB
Registered DIMM	SR or DR	Empty	Empty	1600 MHz	1333 MHz	16 GB
	SR	Empty	SR	1333 MHz	1333 MHz	16 GB
	DR	Empty	DR	1333 MHz	1333 MHz	32 GB
	SR	SR	SR	1066 MHz	1066 MHz	12 GB
	Empty	QR	Empty	1066 MHz	1066 MHz	32 GB
	DR	DR	DR	1066 MHz	800 MHz	48 GB
LRDIMM	QR	Empty	Empty		1333 MHz	32 GB
	QR	Empty	QR		1333 MHz	64 GB
	QR	QR	QR		800 MHz	96 GB

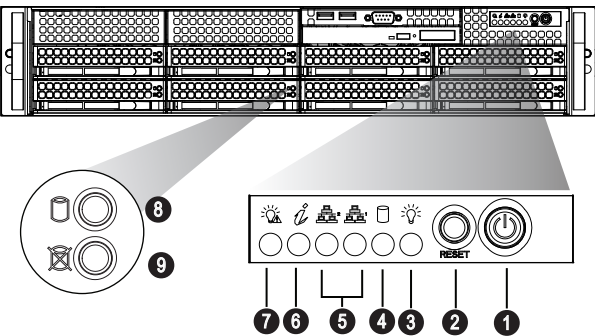
Note 1: Due to OS limitations, some operating systems may not show more than 4 GB of memory.

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.

Beep Codes

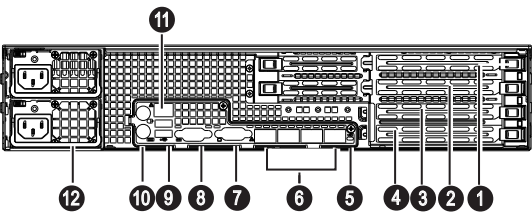
BIOS Beep Codes		
Beep Code/LED	Message	Description
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps + 1 long beep	Memory	No memory detected
5 long beeps + 8 short beeps	Video error	Video adapter disabled or missing
1 continuous beep	System	System overheat

Front View & Interface



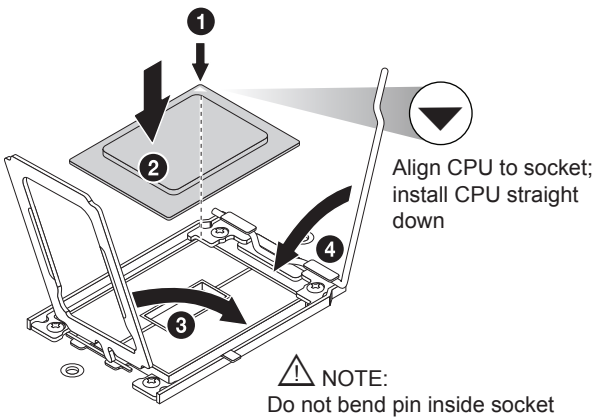
No.	Description
1	Power Button
2	Reset Button
3	Power LED
4	Device Activity LED
5	LAN1 LED & LAN2 LED
6	Information LED
7	Power Failure LED
8	Hard Drive Signal
9	Hard Drive Fail

Rear View

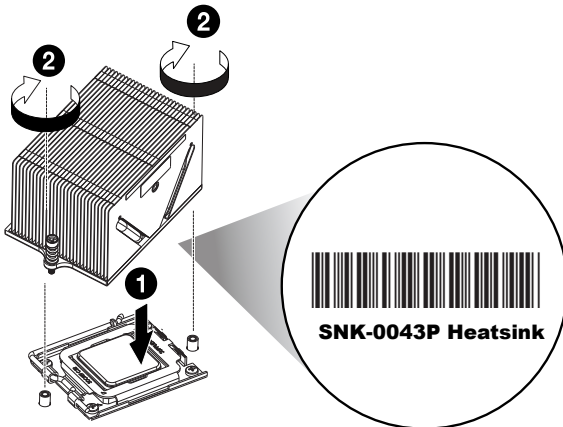


No.	Description
1	PCI-E 2.0 x8 Expansion Slots (FH, 13.5L)
2	PCI-E 2.0 x8 Expansion Slots (FH, 13.5L)
3	PCI-E 2.0 x8 Expansion Slots (FH, 13.5L)
4	UIO Expansion Slot
5	UID Button (Unit Identifier Button)
6	LAN 1, LAN 2, LAN3, LAN4 Ports
7	VGA Port
8	COM Port
9	USB Ports
10	PS2 Keyboard & Mouse Ports
11	Dedicated LAN for IPMI
12	Redundant Power Supplies

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>

