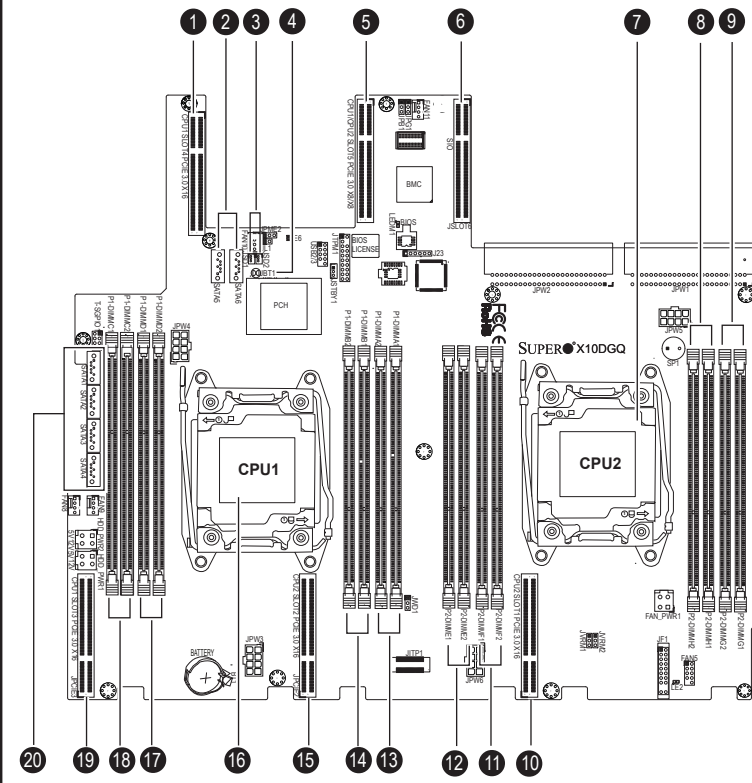


SUPERMICR[®] SuperServer 1028GQ-TR/TRT Quick Reference Guide

Board Layout



No.	Description
1	CPU1 Slot4 PCI-E 3.0 x16
2	SATA5~6: SATA5/6 support Supermicro SuperDOM with power pins built-in
3	JSD1 & JSD2: SATA DOM (Disk-On-Module) Power Connectors 1/2
4	JBT1: CMOS Clear
5	CPU1/CPU2 Slot5 PCI-E 3.0 x8/x8
6	SIO Slot: Riser card for rear I/O support
7	CPU2
8	P2-DIMMH1/P2-DIMMH2 slot
9	P2-DIMMG1/P2-DIMMG2 slot
10	CPU2 Slot1 PCI-E 3.0 x16
11	P2-DIMMF1/P2-DIMMF2 slot
12	P2-DIMME1/P2-DIMME2 slot
13	P1-DIMMA1/P1-DIMMA2 slot
14	P1-DIMMB1/P1-DIMMB2 slot
15	CPU2 Slot2 PCI-E 3.0x16
16	CPU1 (Install CPU1 First)
17	P1-DIMMD1/P1-DIMMD2 slot
18	P1-DIMMC1/P1-DIMMC2 slot
19	CPU1 Slot3 PCI-E 3.0x16
20	SATA1~SATA4: SATA connectors 1-6 supported by Intel PCH

Memory

Processor and Memory Module Population Configuration

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

Processors and their Corresponding Memory Modules								
CPU#	Corresponding DIMM Modules							
CPU 1	P1-DIMMA1	P1-DIMMB1	P1-DIMMC1	P1-DIMMD1	P1-DIMMA2	P1-DIMMB2	P1-DIMMC2	P1-DIMMD2
CPU2	P2-DIMME1	P2-DIMMF1	P2-DIMMG1	P2-DIMMH1	P2-DIMME2	P2-DIMMF2	P2-DIMMG2	P2-DIMMH2

Processor and Memory Module Population for Optimal Performance	
Number of CPUs+DIMMs	CPU and Memory Population Configuration Table (For memory to work properly, please follow the instructions below.)
1 CPU & 2 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1
1 CPU & 4 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1
1 CPU & 5~8 DIMMs	CPU1 P1-DIMMA1/P1-DIMMB1, P1-DIMMC1/P1-DIMMD1 + Any memory pairs in P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2 slots
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/P1-DIMMD1, P2-DIMME1/P2-DIMMF1
2 CPUs & 8 DIMMs	CPU1 + CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1
2 CPUs & 8~16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1 + Any memory pairs in P1, P2 DIMM slots
2 CPUs & 16 DIMMs	CPU1/CPU2 P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1, P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1, P1-DIMMA2/P1-DIMMB2/P1-DIMMC2/P1-DIMMD2, P2-DIMME2/P2-DIMMF2/P2-DIMMG2/P2-DIMMH2

Caution: For the memory to work properly, install DIMMs of the same type and speed.

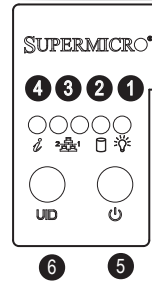
Beep Codes

BIOS Error Beep Codes		
Beep Code/LED	Error Message	Description
1 beep	Refresh	Ready to boot
5 short beeps + 1 long beep	Memory error	No memory detected in the system
5 beeps	No Con-In or No Con-Out devices	Con-In: USB or PS/2 key-board, PCI or Serial Console Redirection, IPMI KVM or SOL Con-Out: Video Controller, PCI or Serial Console Redirection, IPMI SOL
X10 IPMI Error Codes		
1 Continuous Beep	System OH	System Overheat

Front View & Interface

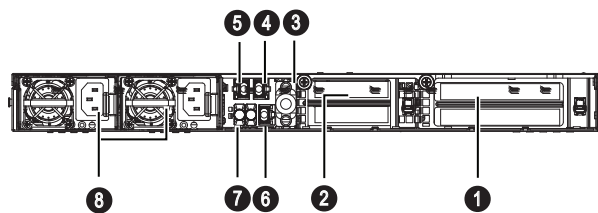


No.	Description
1	Power LED
2	Device Activity LED
3	LAN1 LED & LAN2 LED
4	Information LED
5	Power Button
6	UID Button



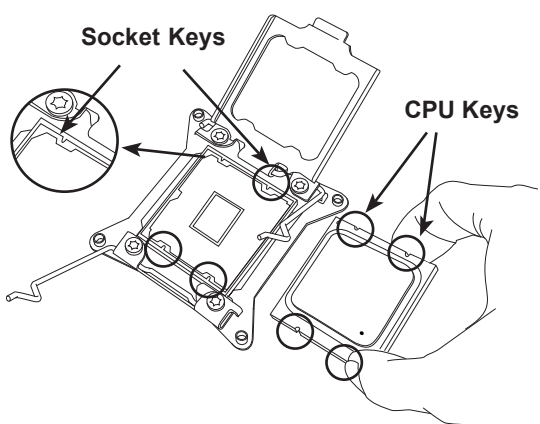
Informational LED	
Status	Description
Continuously on and red	An overheat condition has occurred. (This may be caused by cable congestion.)
Blinking red (1Hz)	Fan failure, check for an inoperative fan.
Blinking red (0.25Hz)	Power failure, check for a non-operational power supply.
Solid blue	Local UID has been activated. Use this function to locate the server in a rack mount environment.
Blinking blue (300 mSEC)	Remote UID is on. Use this function to identify the server from a remote location.

Rear View

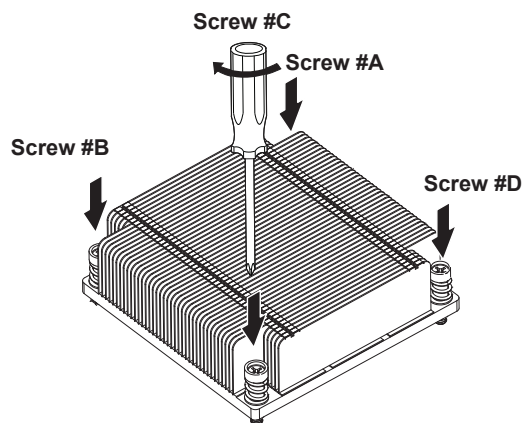


No.	Description
1	FHFL double Width GPU slot(CPU1)
2	2 low profile x8 slots
3	VGA Port
4	LAN 2
5	LAN 1
6	Dedicated LAN for IPMI
7	USB 3.0 Port
8	Redundant Power Supply Module

CPU Installation



Heatsink Installation



- Place the heatsink on top of the installed CPU.
- Align the four screws to the socket.
- Holding the heatsink in place, 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 CPU

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>

