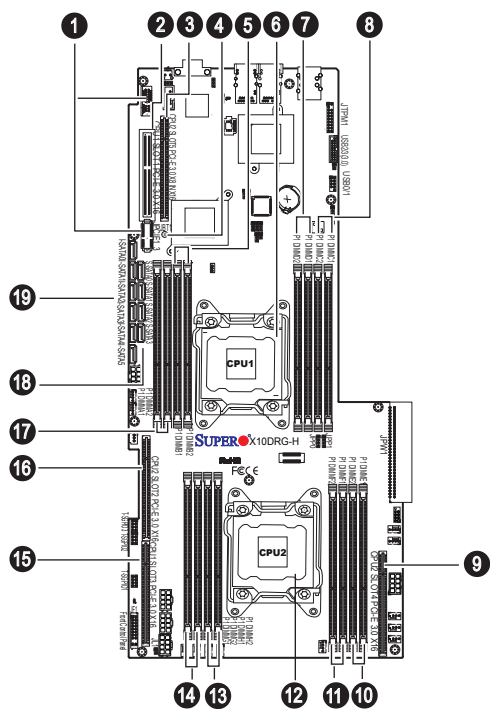


SUPERMICR[®] SuperServer 1028GR-TR/TRT Quick Reference Guide

Board Layout



No.	Description	10	P2 DIMME1 (Blue)/P2 DIMME2 slot
1	JPCIE_1/JPCIE_3: SMC-Proprietary SPEC slot 1	11	P2 DIMMF1 (Blue)/P2 DIMMF2 slot
2	CPU1 Slot1 PCIe 3.0x16	12	CPU2
3	CPU2 Slot5 PCIe 3.0x8 (in x16)	13	P2 DIMMH1 (Blue)/P2 DIMMH2 slot
4	JBT1= CMOS Reset	14	P2 DIMMG1 (Blue)/P2 DIMMG2 slot
5	P1 DIMMB1 (Blue)/P1 DIMMB2 slot	15	CPU1 Slot3 PCI-E 3.0 x16
6	CPU 1	16	CPU2 Slot2 CPI-E 3.0 x16
7	P1 DIMMD1 (Blue)/P1 DIMMD2 slot	17	P1DIMMA1 (Blue)/P1DIMMA2 slot
8	P1 DIMMC1 (Blue)/P1 DIMMC2 slot	18	(S)-SATA 0~3: SATA connectors (0~3) from Intel SCU
9	CPU2 Slot4 PCI-E 3.0x16	19	(I)-SATA 0~5: Intel SATA 3.0 connectors (0~5) from Intel PCH

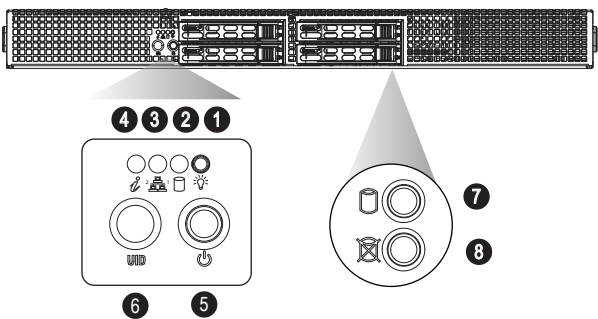
Memory

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
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 & 9~16 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

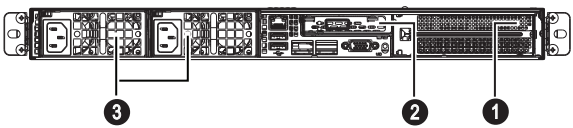
Populating RDIMM/LRDIMM DDR4 Memory Modules							
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC)			
				2 Slots per Channel			
				1 DPC		2 DPC	
		4 GB	8 GB	E5-2600 V3	E5-2600 V4	E5-2600 V3	E5-2600 V4
RDIMM	SRx4	8 GB	16 GB	2133	2400	1866	2133
RDIMM	SRx8	4 GB	8 GB	2133	2400	1866	2133
RDIMM	DRx8	8 GB	16 GB	2133	2400	1866	2133
RDIMM	DRx4	16 GB	32 GB	2133	2400	1866	2133
LRDIMM	QRx4	32 GB	64 GB	2133	2400	2133	2400
LRDIMM 3DS	8Rx4	64 GB	128 GB	2133	2400	2133	2400

Front View & Interface



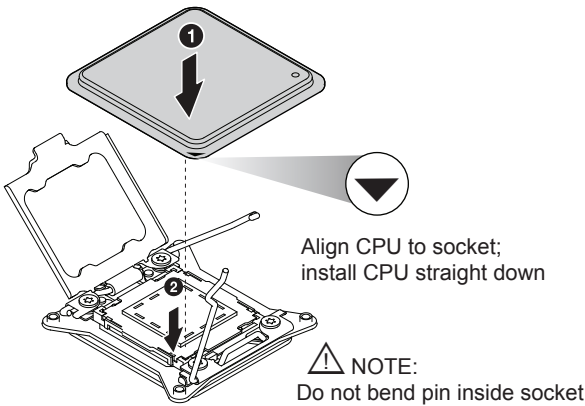
No.	Description
1	Power LED
2	Device Activity LED
3	LAN1 LED & LAN2 LED
4	Information LED
5	Power Button
6	UID Button
7	Hard Drive Signal
8	Hard Drive Fail

Rear View

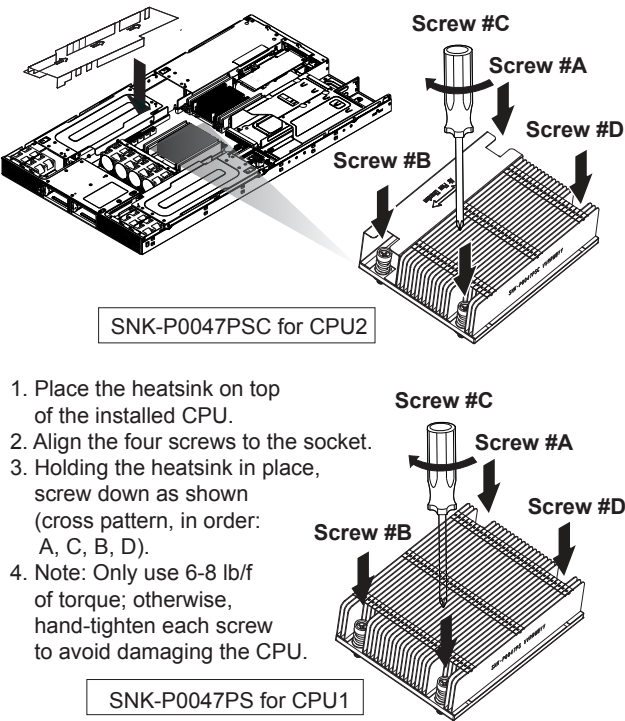


No.	Description
1	PCI-E 3.0x16 Expansion Slot (FH, FL)
2	PCI-E 3.0x8 Expansion Slot (LP)
3	Redundant Power Supply Module

CPU Installation



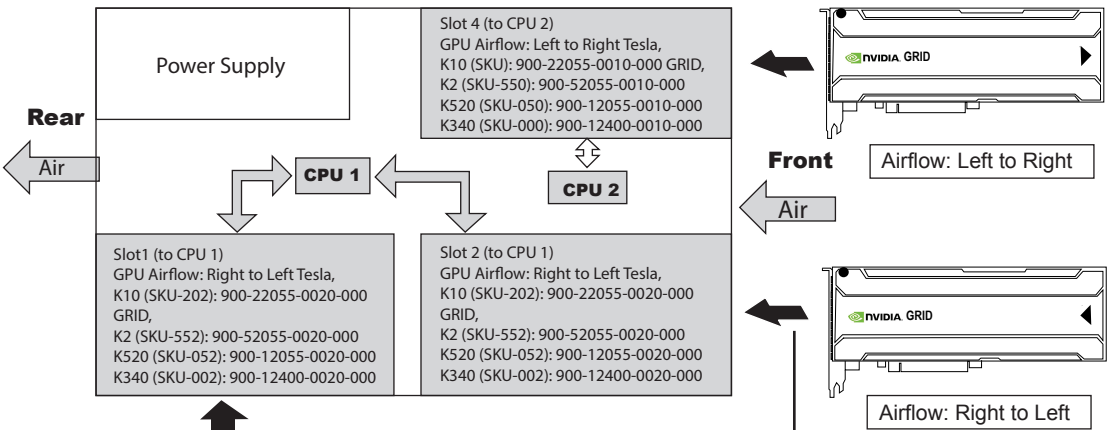
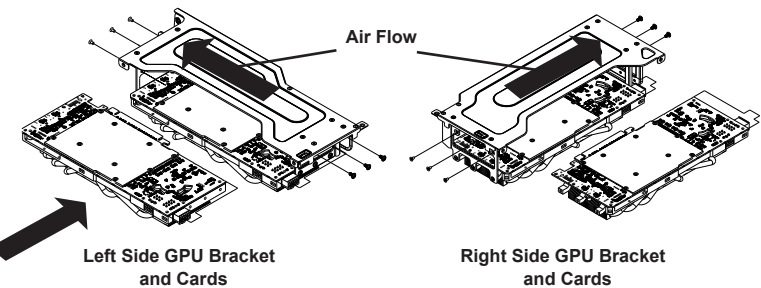
Heatsink Installation



Installing Graphics (GPU) Cards

1. Identify the left and right brackets and graphics cards as illustrated below.

2. Pay attention to the airflow on the GPU cards to install each card into the correct side of the chassis.



Note: Tesla K20/K20X, GRID K1 airflow is bi-directional, so the same part# goes to all slots.

3. Insert the graphics cards into the brackets, aligning the mounting holes in the graphics cards with the mounting holes in the brackets.
4. Secure each card to the bracket using the six screws which are included for the purpose.
5. Carefully position each bracket in the chassis, aligning the four mounting holes in the top and side of each bracket with the corresponding mounting holes in the chassis.
6. Secure the bracket to the chassis by using the screws provided.
7. After a GPU card is installed, you must connect it to one of the following power headers on the serverboard: JPW3, JPW4, JPW5, JPW6 or JPW7

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>

