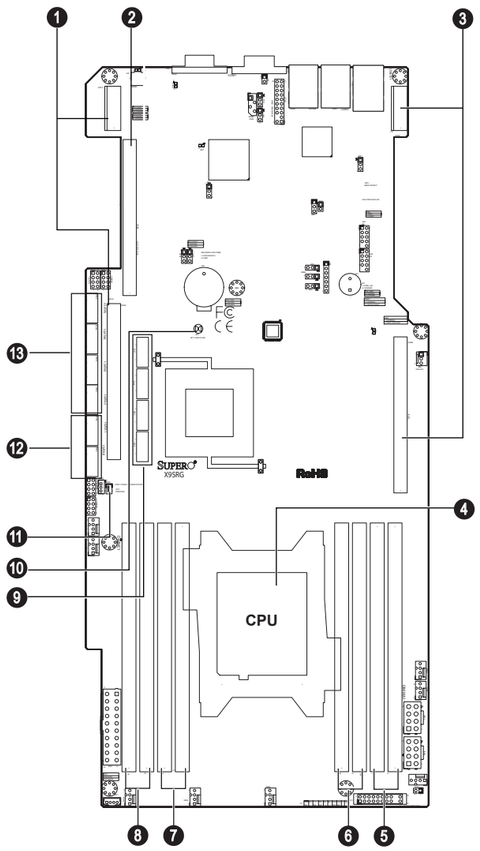
SUPERMICRO® SuperServer 1017GR/5017GR-TF/FM109/FM175/FM209/FM275 Quick Reference Guide

Board Layout



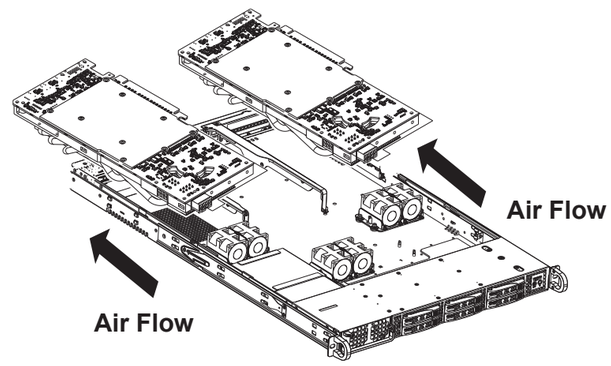
No.	Description
1	SXB1A, SXB1B: Slot for Supermicro riser card P/N RSC-R1UG-E16-UP
2	Slot 3 (Slot for Supemicro riser card P/N RSC-R1UG-E16R)
3	SXB2A, SXB2B: Slot for Supermicro riser card P/N RSC-R1UG-E16R-UP
4	CPU
5	DIMMA1/DIMMA2
6	DIMMB1/DIMMB2
7	DIMMD1/DIMMD2
8	DIMMC1/DIMMC2
9	SCU1~SCU4: SATA 2.0 Ports via SCU (3Gb/s, RAID 0, 1, 10, 5)
10	JBT1 = CMOS Clear
11	JSD1 = SATA Disk On Module (DOM) Power Connector
12	I-SATA0, I-SATA1: SATA 3.0 Ports via PCH (6Gb/s)
13	I-SATA2 ~ I-SATA5: SATA 2.0 Ports via PCH (3Gb/s)

MEMORY

Recommended Population (Balanced)								
DIMMA1	DIMMB1	DIMMC1	DIMMD1	DIMMA2	DIMMB2	DIMMC2	DIMMD2	Total System Memory
2GB	2GB							4GB
2GB	2GB	2GB	2GB					8GB
2GB	2GB	2GB	2GB	2GB	2GB			12GB
2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	16GB
4GB	4GB							8GB
4GB	4GB	4GB	4GB					16GB
4GB	4GB	4GB	4GB	4GB	4GB			24GB
4GB	4GB	4GB	4GB	4GB	4GB	4GB	4GB	32GB
8GB	8GB							16GB
8GB	8GB	8GB	8GB					32GB
8GB	8GB	8GB	8GB	8GB	8GB			64GB
8GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	128GB
16GB	16GB							32GB
16GB	16GB	16GB	16GB					64GB
16GB	16GB	16GB	16GB	16GB	16GB			96GB
16GB	16GB	16GB	16GB	16GB	16GB	16GB	16GB	128GB
32GB	32GB							64GB
32GB	32GB	32GB	32GB					128GB
32GB	32GB	32GB	32GB	32GB	32GB			192GB
32GB	32GB	32GB	32GB	32GB	32GB	32GB	32GB	256GB

Note: Up to 256GB of memory are supported using ECC QR (Quad Rank or 4-Rank) registered DIMM technology at 1600/1333/1066/800 MHz. Up to 64GB of memory are supported using non-ECC UDIMMs.

Installing Graphics (GPU) Cards

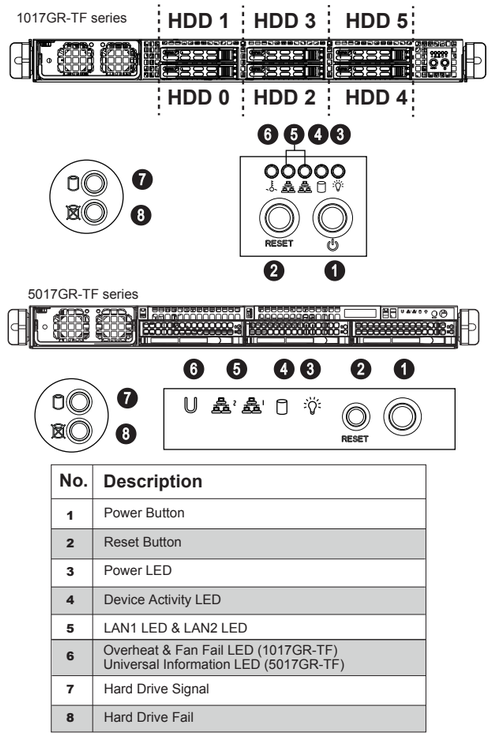


Special instruction on installing Kepler K10:

1. Pay attention to the airflow arrows on the Kepler cards to install each card into the correct side of the chassis.
2. This system only supports Kepler K10 that the airflow points toward the Tesla logo.

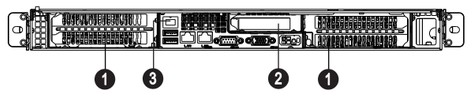
Note: This system supports up to two double width GPU cards. GPU cards need special brackets, for more information about the GPU bracket holder, please go to Super Micro's Website www.supermicro.com

Front View & Interface



No.	Description
1	Power Button
2	Reset Button
3	Power LED
4	Device Activity LED
5	LAN1 LED & LAN2 LED
6	Overheat & Fan Fail LED (1017GR-TF) Universal Information LED (5017GR-TF)
7	Hard Drive Signal
8	Hard Drive Fail

Rear View

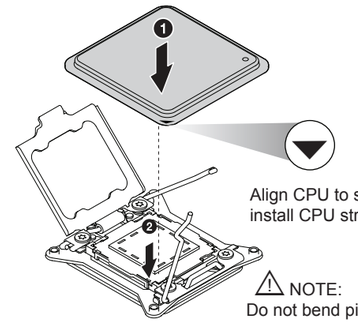


No.	Description
1	GPU card
2	PCI-E Expansion Slot
3	Dedicated LAN for IPMI

Beep Codes

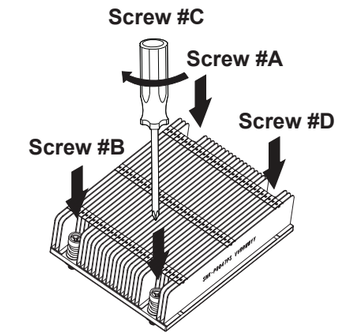
BIOS POST Error Codes		
Beep Code	**Error Message**	**Description**
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps + 1 long beep	Memory error	No memory detected in the system
5 beeps	No Con-In or Con-Out devices	Con-In includes USB or PS/2 keyboard, PCI or serial console redirection, IPMI KVM or SOL. Con-Out includes video controller, PCI or serial console redirection, IPMI SOL.
Continuous high (pitch) + low (pitch)	System Overheat	System overheat

CPU Installation



⚠ NOTE:
Do not bend pin inside socket

Heatsink Installation



1. Place heatsink on top of installed CPU
2. Line up the four screws to socket
3. Push down heatsink and screw down as shown (cross pattern, in order: A, C, B, D)
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