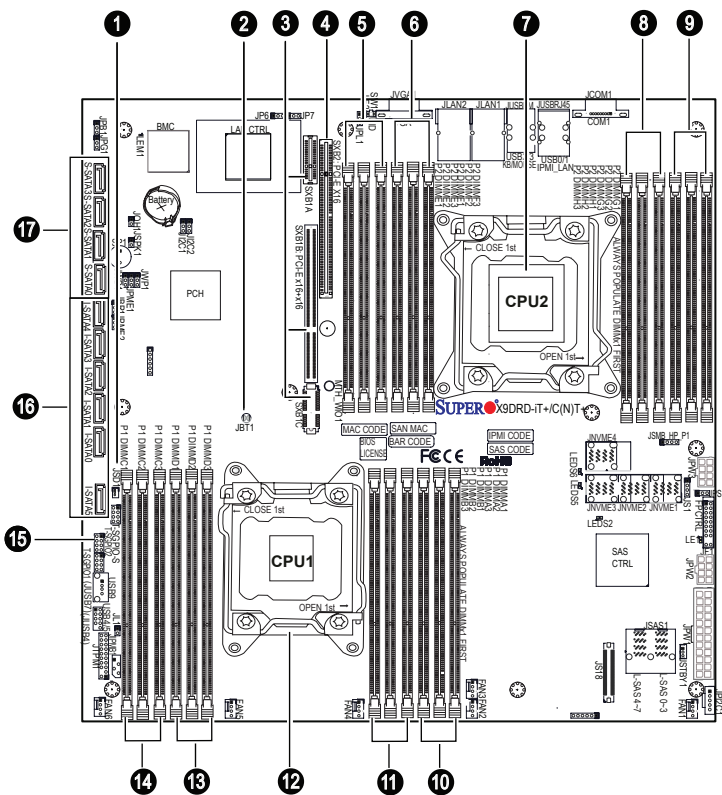


SUPERMICR[®] SuperServer 6027R-TDT+ Quick Reference Guide

Board Layout



No.	Description
1	JSD1: SATA DOM (Device on Module) Power Connector
2	JBT1: Clear CMOS
3	SXB1A/SXB1B/SXB1C: SMCi-Proprietary PCI-E 3.0 x 32 slots for WIO riser cards
4	SXB2: PCI-E 3.0 x16 SMCi-Proprietary WIO slot
5	P2-DIMME1/P2-DIMME2/P2-DIMME3 slot
6	P2-DIMMF1/P2-DIMMF2/P2-DIMMF3 slot
7	CPU2
8	P2-DIMMH1/P2-DIMMH2/P2-DIMMH3 slot
9	P2-DIMMG1/P2-DIMMG2/P2-DIMMG3 slot
10	P1-DIMMA1/P1-DIMMA2/P1-DIMMA3 slot
11	P1-DIMMB1/P1-DIMMB2/P1-DIMMB3 slot
12	CPU1 (Must be installed first)
13	P1-DIMMD1/P1-DIMMD2/P1-DIMMD3 slot
14	P1-DIMMC1/P1-DIMMC2/P1-DIMMC3 slot
15	T-SGPIO1: I-SATA0-3; T-SGPIO2: I-SATA4/5
16	I-SATA 0-5: SATA Ports 0-5
17	S-SATA 0-3: SATA Ports 0-3

Memory

Processors and their Corresponding Memory Modules												
CPU#	Corresponding DIMMs											
CPU1 (P1-DIMM)	A1	B1	C1	D1	A2	B2	C2	D2	A3	B3	C3	D3
CPU2 (P2-DIMM)	E1	F1	G1	H1	E2	F2	G2	H2	E3	F3	G3	H3

Populating LRDIMM (ECC) Memory Modules

Intel E5-2600(v2) Series Processor LRDIMM Memory Support											
Ranks Per DIMM & Data Width	Memory Capacity Per DIMM (See the Note Below)	Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)									
		2 Slots Per Channel				3 Slots Per Channel					
		1DPC		2DPC		1DPC		2DPC		3DPC	
		1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
QRx4 (DDP)	16GB 32GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333, 1600	1066, 1333, 1600	1066	1066
8Rx4 (QDP)	32GB 64GB	1066	1066	1066	1066	1066	1066	1066	1066	1066	1066

Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Intel E5-2600 Series Processor LRDIMM Memory Support											
Ranks Per DIMM & Data Width	Memory Capacity Per DIMM (See the Note Below)	Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)									
		2 Slots Per Channel				3 Slots Per Channel					
		1DPC		2DPC		1DPC		2DPC		3DPC	
		1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
QRx4 (DDP)	16GB 32GB	1066	1066, 1333	1066	1066, 1333	1066	1066, 1333	1066	1066, 1333	1066	1066
QRx8 (QDP)	8GB 16GB	1066	1066, 1333	1066	1066, 1333	1066	1066	1066	1066	1066	1066

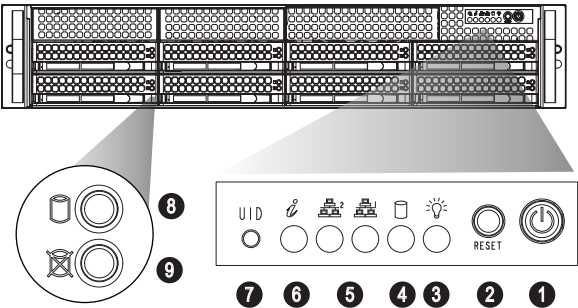
Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Populating UDIMM (ECC/Non-ECC) Memory Modules

Intel E5-2600(v2) Series Processor UDIMM Memory Support											
Ranks Per DIMM & Data Width	Memory Capacity Per DIMM (See the Note below)	Speed (MT/s) and Voltage Validated by Slot per Channel (SPC) and DIMM Per Channel (DPC)									
		2 Slots Per Channel				3 Slots Per Channel					
		1DPC		2DPC		1DPC		2DPC			
		1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
SRx8 Non-ECC	1GB 2GB 4GB	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600	NA	1066, 1333, 1600	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600
DRx8 Non-ECC	2GB 4GB 8GB	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600	NA	1066, 1333, 1600	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600
SRx16 Non-ECC	512MB 1GB 2GB	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600	NA	1066, 1333, 1600	NA	1066, 1333, 1600, 1866	NA	1066, 1333, 1600
SRx8 ECC	1GB 2GB 4GB	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600	1066, 1333, 1600
DRx8 ECC	2GB 4GB 8GB	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333, 1600, 1866	1066, 1333, 1600	1066, 1333, 1600

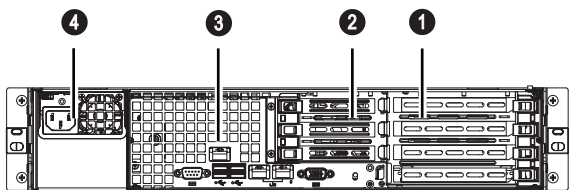
Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

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	UID Button
8	Hard Drive Signal
9	Hard Drive Fail

Rear View

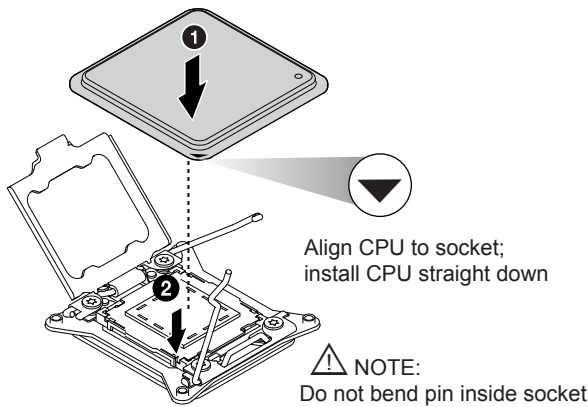


No.	Description
1	PCI Expansion Slot (w/riser card) (FHHL)
2	PCI Expansion Slot (w/riser card) (LP)
3	Dedicated LAN for IPMI
4	Power Supply Module

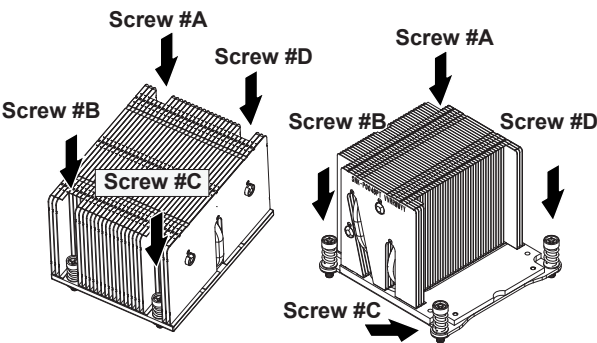
Beep Codes

Beep Code	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	Display memory read/write error	Video adapter missing or with faulty memory
OH LED On	System OH	System Overheat

CPU Installation



Heatsink Installation



SNK-P0048PS for CPU1 SNK-P0048PT for CPU2

- 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>

