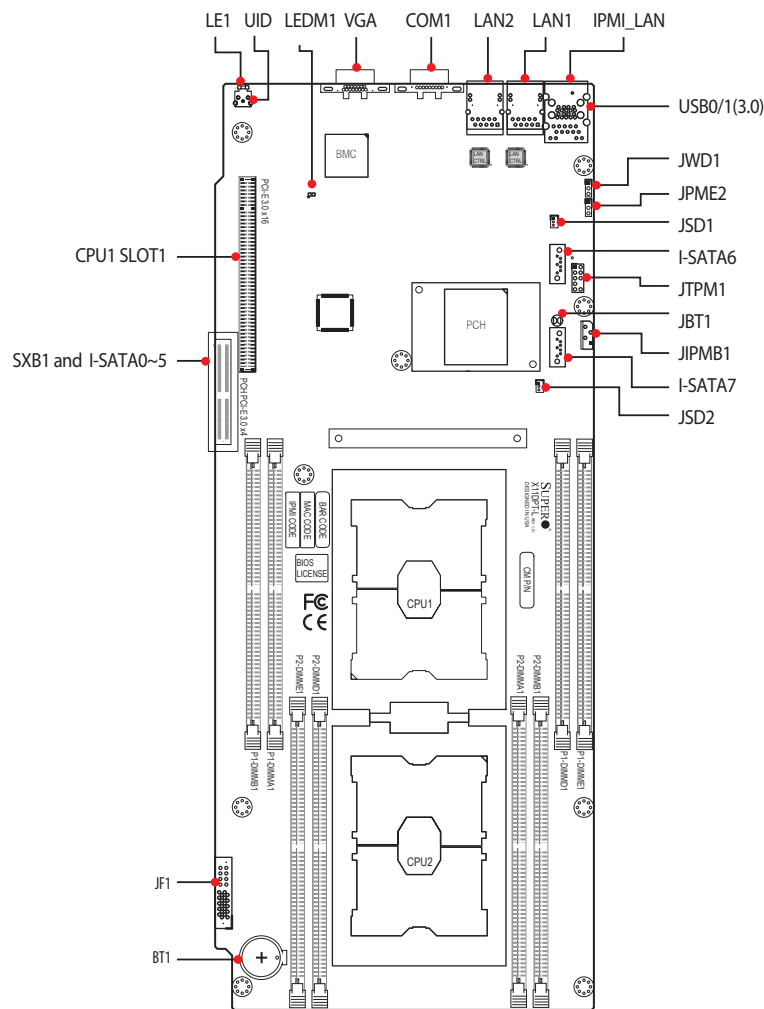


SUPERMICR[®] SuperServer 6029TR-DTR Quick Reference Guide

Board Layout



Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JWD1	Watch Dog Timer Enable	Pins 1-2 (Enabled, Reset)

Connector	Description
BT1	Onboard Battery
COM1	Backpanel COM port
IPMI_LAN	Dedicated IPMI LAN port
I-SATA0-5	SATA 3.0 connection header supported by the Intel® PCH
I-SATA6/I-SATA7	I-SATA Ports with built-in power pins and with support of Supermicro SuperDOM (Disk On Module) devices
JF1	Front Panel Control Signals and Power Input Connector
JIPMB1	4-pin BMC External PC header (for an IPMI-supported card)
JSD1/JSD2	SATA DOM Power Connectors 1/2
JTPM1	Trusted Platform Module (TPM)/Port 80 connector
LAN1/2	Gigabit LAN Ethernet Ports on the I/O Backplane
(CPU1) SLOT1	PCI-Express 3.0 x16 Slot Supported by CPU1
SXB1	PCI-Express 3.0 x4 from PCH to SMCI- Proprietary Storage Slot for M.2 Hybrid (SATA/NVME) Support on ADP, SATA0-5 Support on Backplane
UID	Unit Identifier (UID) Switch
USB0/1	Backpanel USB 3.0 Ports
VGA	VGA Port

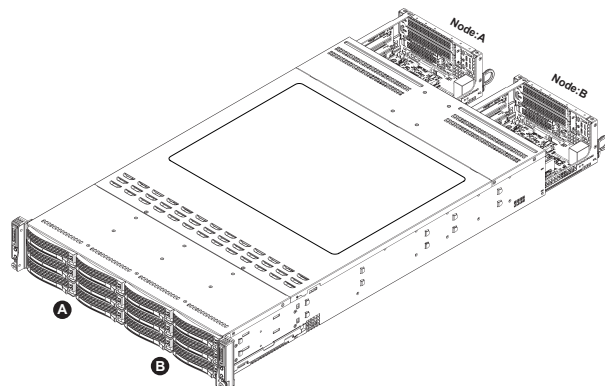
LED	Description	Status
LE1	UID (Unit Identifier) LED	Solid Blue: Unit identified
LEDM1	BMC Heartbeat LED	Blinking Green: BMC normal

Memory Support

Memory Population Table

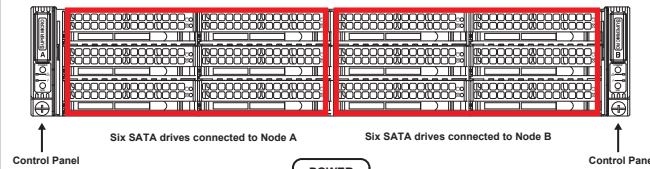
When 1 CPU is used:	Memory Population Sequence
1 CPU & 1 DIMM	CPU1: P1-DIMMA1
1 CPU & 2 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1
1 CPU & 3 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1
1 CPU & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1
When 2 CPUs are used:	Memory Population Sequence
2 CPUs & 2 DIMMs	CPU1: P1-DIMMA1 CPU2: P2-DIMMA1
2 CPUs & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1 CPU2: P2-DIMMA1/P2-DIMMD1
2 CPUs & 6 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1 CPU2: P2-DIMMA1/P2-DIMMD1
2 CPUs & 8 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1 CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMMD1/P2-DIMME1

Nodes and Corresponding Hard Drives



Node Drawer Locations
Node A controls drives A0-A5
Node B controls drives B0-B5

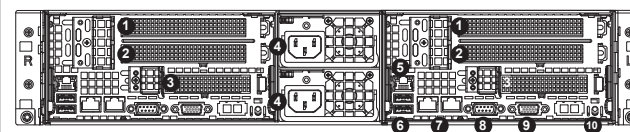
Front view & Interface



Control Panel Features		
Item	Feature	Description
1	Power Button	The main power switch applies or removes primary power from the power supply to the node but maintains standby power.
2	NIC LED	Indicates network activity on LAN port when flashing.
3	Information LED	Alerts operator to several states, as noted in the table below.
4	UID Button/LED	The unit identification (UID) button turns on or off the blue light function of the Information LED and a blue LED on the rear of the chassis. These are used to locate the server in large racks and server banks.

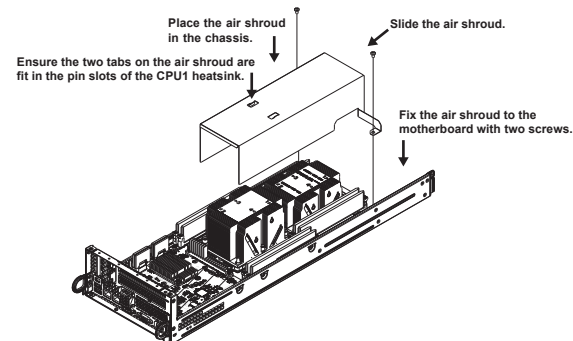
Information LED	
Feature	Description
Continuously on and red	An overheat condition has occurred. (This may be caused by cable congestion.)
Blinking red (1 Hz)	Fan failure: check for an inoperative fan.
Blinking red (0.25 Hz)	Power failure: check for an inoperative power supply.
Solid blue	Local UID has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

Rear View

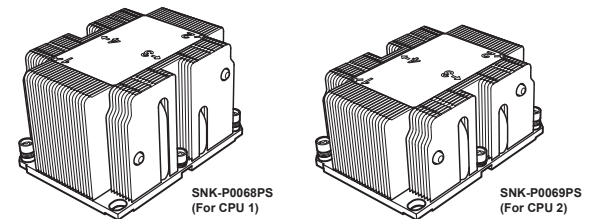


Rear Chassis Features		
Item	Feature	Description
1	PCI-E 3.0 Slots	PCI-E 3.0 x8 FH/HL Slots (CPU 1)
2	PCI-E 3.0 Slots	PCI-E 3.0 x8/x4 FH/HL (CPU 1)
3	PCI-E 3.0 Slots	PCI-E 3.0 x4 LP Slots (CPU 1)
4	Power Supplies	Redundant 1200W Titanium Level power supplies
5	Dedicated IPMI LAN Port	A dedicated IPMI LAN port is located above USB0/1.
6	USB 3.0 Ports	Rear access USB 3.0 ports (2x)
7	LAN Ports	Accept RJ45 type cables.
8	COM Port	Serial port
9	VGA Port	For VGA display
10	UID Button	Illuminates an LED on the chassis for identification.

Air Shroud installation

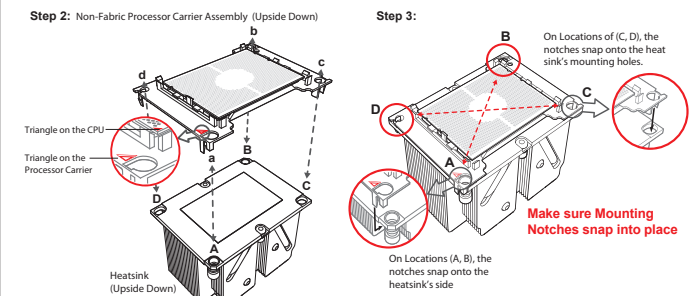
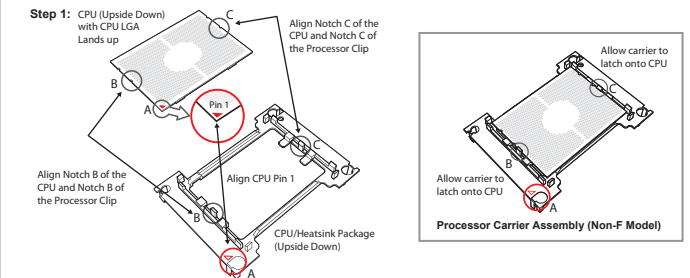


Heatsinks



CPU Installation

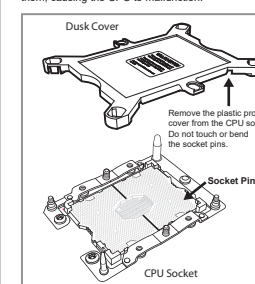
Attaching the Non-F Model Processor Carrier Assembly to the Heatsink to Form the Processor Heatsink Module (PHM)



Preparing the CPU Socket for Installation

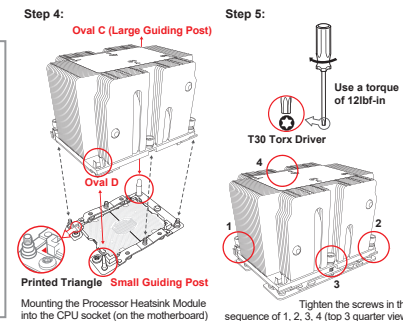
This motherboard comes with a plastic protective cover on the CPU socket. Remove it carefully to install the Processor Heatsink Module (PHM).

Note: Do not touch the socket pins to avoid damaging them, causing the CPU to malfunction.



Installing the Processor Heatsink Module (PHM)

Note: Do not use excessive force when tightening the screws to avoid damaging the LGA lands and the processor.



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

WARNING:

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>

