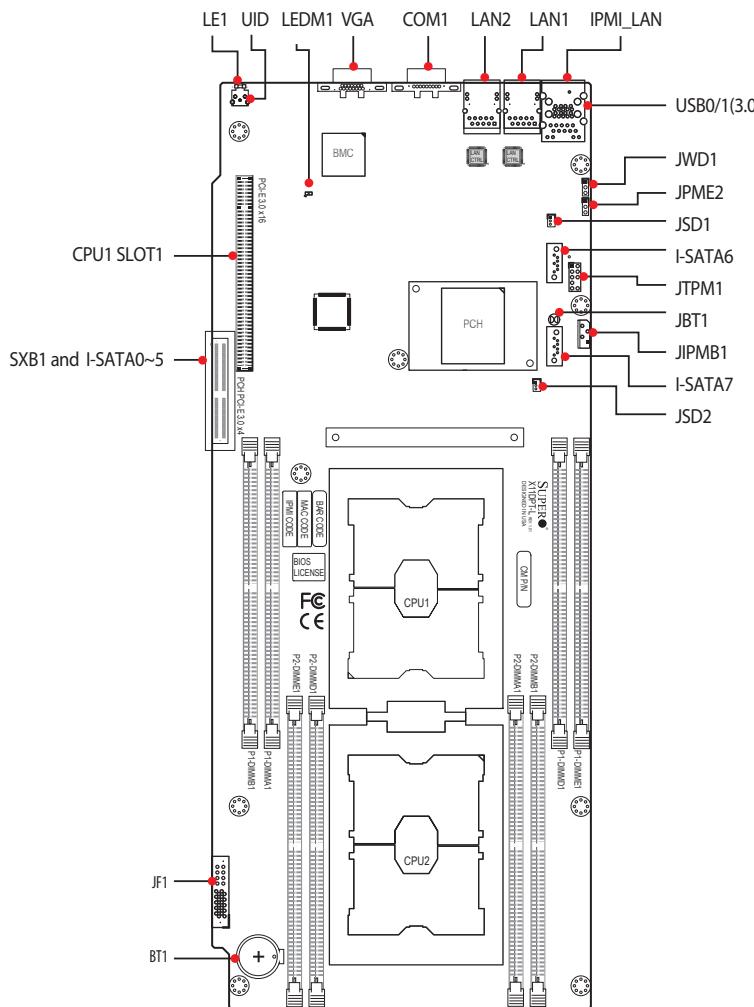


## Board Layout



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 I2C 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

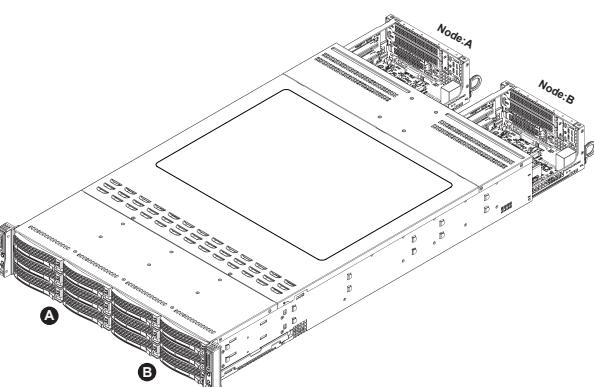
LED	Description	Status
LE1	UID (Unit Identifier) LED	Solid Blue: Unit identified
LEDM1	BMC Heartbeat LED	Blinking Green: BMC normal

## 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

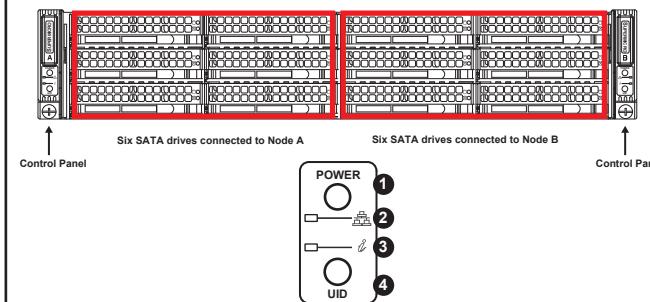


## Node Drawer Locations

Node A controls drives  
A0-A5

Node B controls drives  
B0-B5

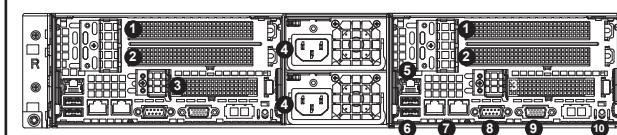
## Front view &amp; Interface



Control Panel Features	
Item	Feature
1	Power Button
2	NIC LED
3	Information LED
4	UID Button/LED

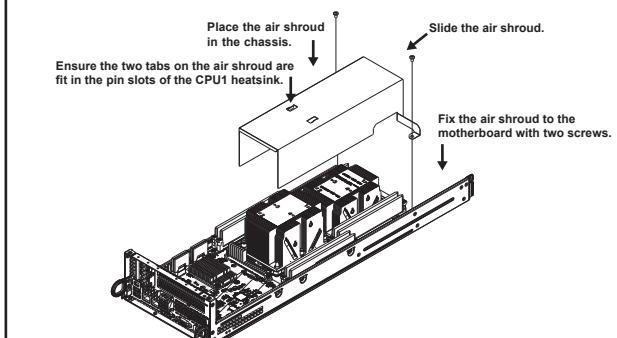
Information LED	
Feature	Description
Continuously on and red	An overheat condition has occurred. (This may be caused by cable congestion.)
Blinking red (1 Hz)	Fan failure: check for an inoperative fan.
Blinking red (0.25 Hz)	Power failure: check for an inoperative power supply.
Solid blue	Local UID has 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

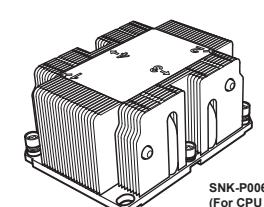
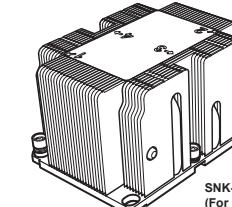


Rear Chassis Features	
Item	Feature
1	PCI-E 3.0 Slots
2	PCI-E 3.0 Slots
3	PCI-E 3.0 Slots
4	Power Supplies
5	Dedicated IPMI LAN Port
6	USB 3.0 Ports
7	LAN Ports
8	COM Port
9	VGA Port
10	UID Button

## Air Shroud installation

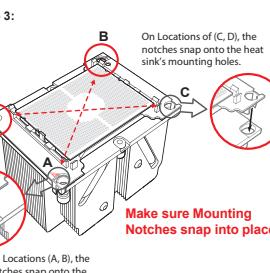
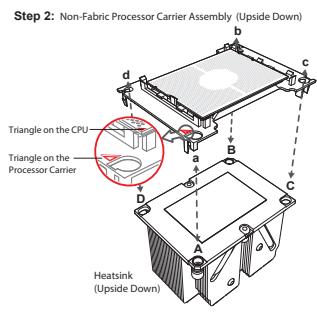
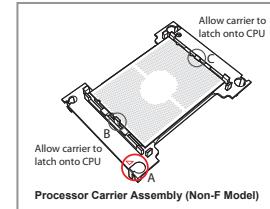
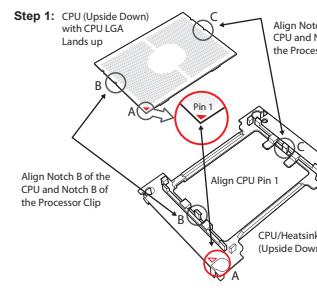


## Heatsinks



## CPU Installation

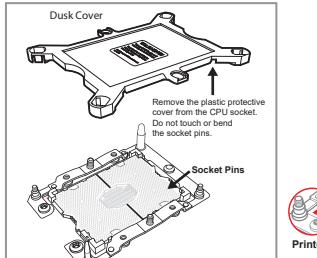
Attaching the Non-F Model Processor Carrier Assembly to the Heatsink to Form the Processor Heatsink Module (PHM)



## 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).

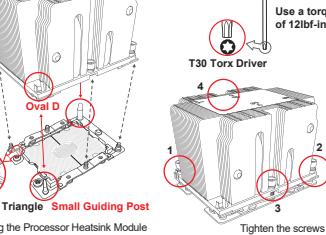
Note: Do not touch the socket pins to avoid damaging them, causing the CPU to malfunction.



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

Step 4: Oval C (Large Guiding Post)

Step 5: Oval D (Small Guiding Post)



## 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](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>

