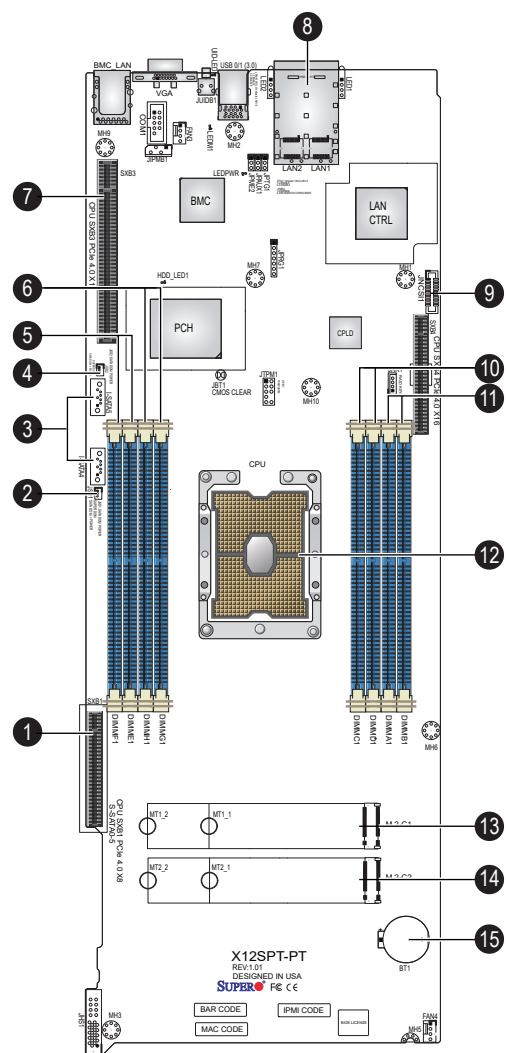


SUPERMICR[®] SuperServer 210TP-HPTR/HPTRD Quick Reference Guide

Board Layout



No.	Description
1	SXB1 : PCIe 4.0 x8 Slot supported by CPU1 for Supermicro proprietary riser card and six SATA connections (S-SATA0 - S-SATA5) supported by PCH
2	JSD1 : SATA DOM (Disk-On-Module) Power Connector
3	Intel PCH Powered I-SATA 3.0 Ports with support for SuperDOM (Disk on Module) devices
4	JSD2 : SATA DOM (Disk-On-Module) Power Connector
5	P1-DIMMB1/P1-DIMMA1 slot
6	P1-DIMMD1/P1-DIMMC1 slot
7	SXB3 : PCIe 4.0 x16 Slot supported by CPU1 for the Supermicro proprietary riser card
8	LAN1, LAN2 : 10Gb Base-T Ethernet Ports
9	SXB4 : PCIe 4.0 x16 Slot supported by CPU2 for the Supermicro proprietary riser card
10	P1-DIMMG1/P1-DIMMH1 slot
11	P1-DIMME1/P1-DIMMF1 slot
12	CPU
13	M.2 C1
14	M.2 C2
15	JBT1: CMOS Clear

Memory

DDR4 Memory Support for 3rd Gen Intel Xeon Scalable Processors

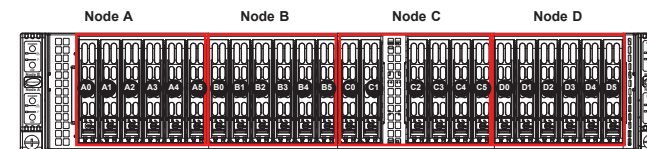
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s) and Voltage
		8Gb	16Gb	One DIMM per Channel 1.2V
RDIMM	SRx8	8GB	16GB	3200*
	SRx4	16GB	32GB	
	DRx8	16GB	32GB	
	DRx4	32GB	64GB	
RDIMM 3Ds	(4R/8R) x4	2H-64GB 4H-128GB	2H-128GB 4H-256GB	3200*
LRDIMM	QRx4	64GB	128GB	
LRDIMM 3Ds	(4R/8R) x4	4H-128GB	2H-128GB 4H-256GB	

Memory Population Table (with 8 Slots)

CPUs/DIMMs	DIMM Slots
1	DIMMA1
2	DIMMA1 / DIMME1
4	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1
6	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1 / DIMMB1 / DIMMF1
8	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1 / DIMMB1 / DIMMF1 / DIMMD1 / DIMMH1

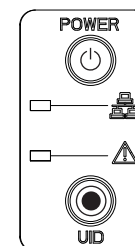
* recommended for optimal performance

Front view & Interface



Logical Storage Drive Numbers

Item	Description
0 - 5	2.5" hot-swap SAS3/SATA drive bays for each of Nodes A, B, C, and D

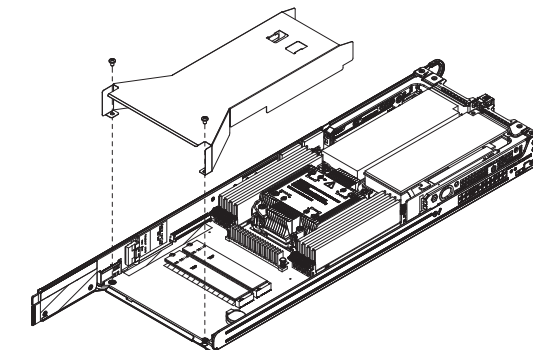


No.	Feature
1	Power button
2	NIC LED
3	Information LED
4	UID button/LED BMC reset

Air Shroud installation

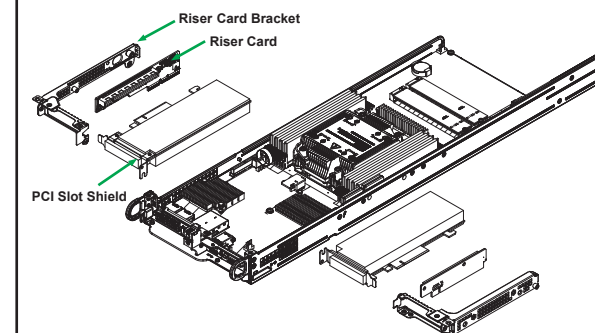
Air shrouds concentrate airflow to maximize cooling efficiency

1. Screw the guide pins into the sled as shown below.
2. Position the air shrouds and drop them onto the guide pins and into place.

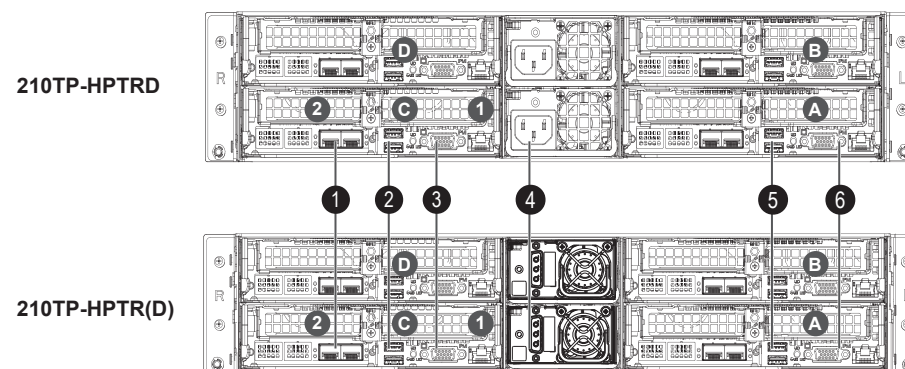


Installing Expansion Cards

1. Use the control panel to power down the computing node, and pull the node drawer out of the chassis.
2. Open the PCI slot clip in the rear of the node drawer and remove the PCI slot shield.
3. If the riser card is not already installed, push it into the motherboard slot.
4. Slide the expansion card into the riser card slot while fitting the expansion card shield into the opening in the rear of the node drawer.
5. Close the PCI slot clip to secure the expansion card shield.
6. Secure the riser card screw.
7. Return the node drawer and power-up.



Rear View



No.	Description
A,B,C,D	Four compute nodes
1 2	PCIe 4.0 x16 expansion card slots
1	LAN
2	USB Ports
3	VGA Connector
4	Power Supplies
5	UID LED/BMC Reset
6	BMC LAN

Heatsink Installation

Remove the plastic protective cover from the CPU socket. Gently squeeze the grip tabs then pull the cover off.

Locate four threaded fasteners (a, b, c, d) on the CPU socket.

Align nut A (next to the triangles and pin 1) on the heatsink with threaded fastener "a" on the CPU socket. Also align nuts B, C, D on the heatsink with threaded fasteners b, c, d on the CPU socket.

Press all four rotating wires outward to latch the PHM onto the CPU socket.

Locate four PEEK nuts (A, B, C, D) and four rotating wires (1, 2, 3, 4) on the heatsink as shown below.

With a t30-bit screwdriver, tighten all PEEK nuts in the sequence of A, B, C, and D with even pressure not greater than 12 lbf-in.

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>

