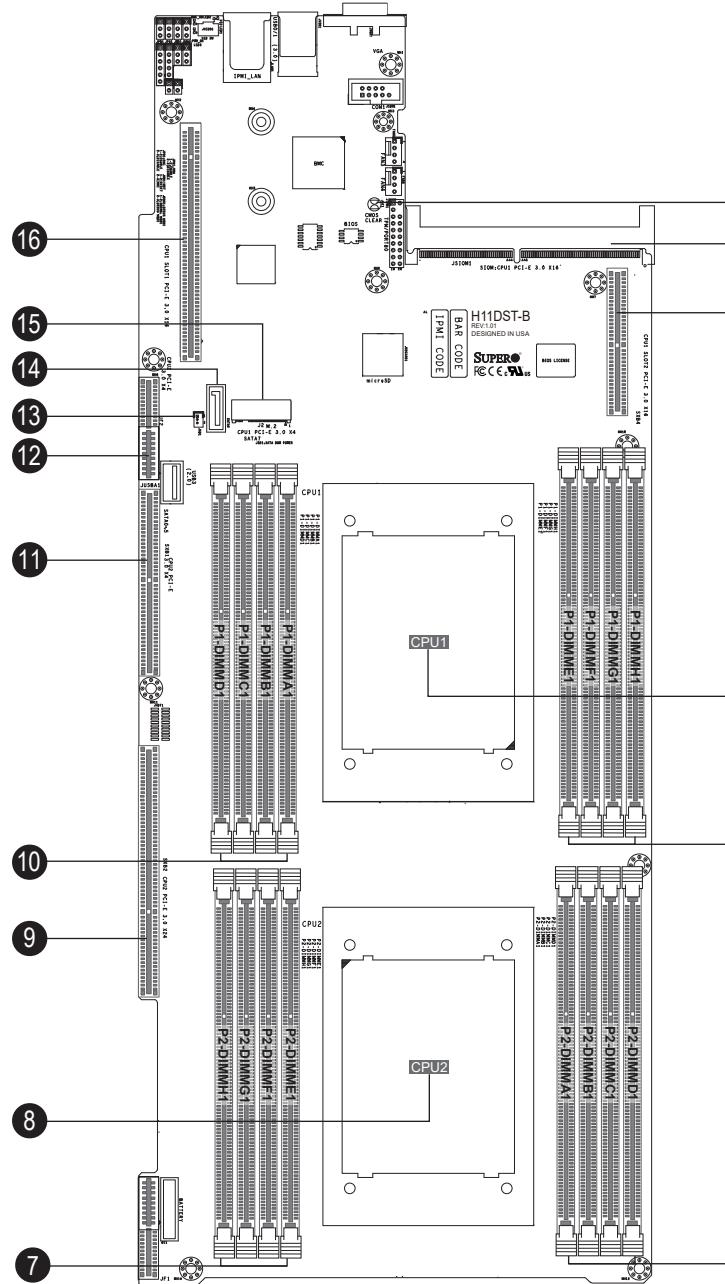


Board Layout



Memory

DIMM Module Population

Keep the following in mind:

- Always use DDR4 DIMM modules of the same type, size and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules (1 or 3 modules installed). However, to achieve the best memory performance, fully populate the motherboard with validated memory modules.

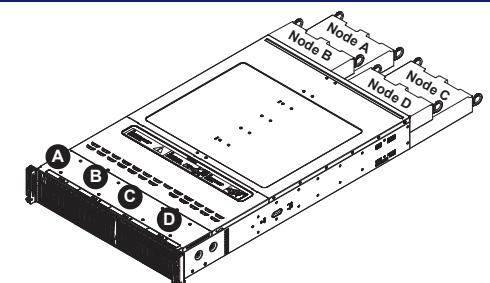
Processors and their Corresponding Memory Modules

CPU#	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel 8
4 DIMMS								
CPU1		B1		D1		F1		H1
8 DIMMS								
CPU1	A1	B1	C1	D1	E1	F1	G1	H1
8 DIMMS								
CPU1		B1		D1		F1		H1
CPU2		B1		D1		F1		H1
16 DIMMS								
CPU1	A1	B1	C1	D1	E1	F1	G1	H1
CPU2	A1	B1	C1	D1	E1	F1	G1	H1

Always use DDR4 DIMM modules of the same type, size and speed. To achieve the best memory performance, a balanced memory population is recommended, as shown in the table.

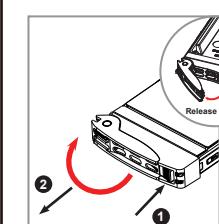
Nodes and Corresponding Hard Drives

Drives Controlled by Nodes	
Node A	controls drives A0, A1 A2, A3, A4 and A5
Node B	controls drives B0, B1, B2, B3, B4 and B5
Node C	controls drives C0, C1, C2, C3, C4 and C5
Node D	controls drives D0, D1, D2, D3, D4 and D5



Hard Drive Installation

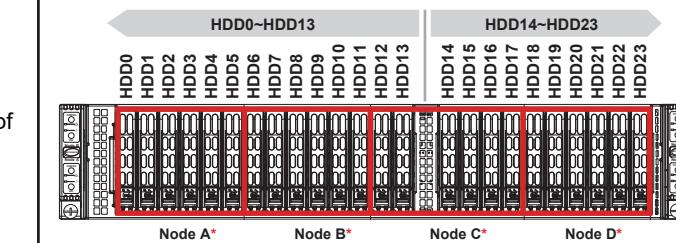
Removing a Hot-Swap Drive Carrier from the Chassis



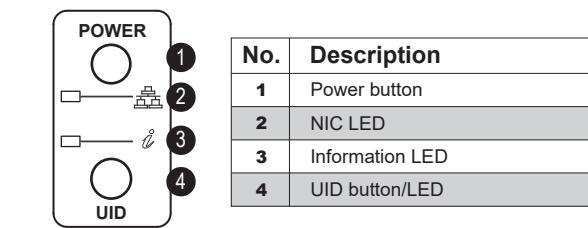
Installing a Drive

- Remove the dummy drive, by removing the screws securing the dummy drive to the carrier. These screws are not used to mount the actual hard drive.
- Press the release button on the drive carrier, which will extend the drive carrier handle.
- Insert a drive into the carrier with the PCB side facing down and the connector end toward the rear of the carrier. Align the drive in the carrier so that the screw holes line up.
- Secure the drive to the carrier with four M3 screws, included in the chassis accessory box.
- Insert the drive carrier with the disk drive into its bay, keeping the carrier oriented so that the release button is on the right side. When the carrier reaches the rear of the bay, the release handle retracts.
- Push the handle in until it clicks into its locked position.

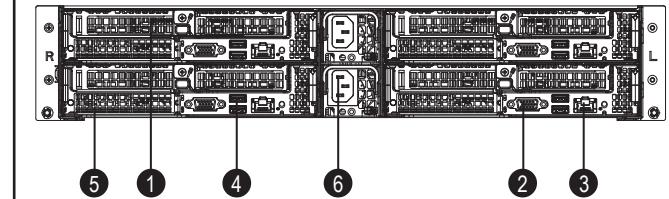
Front View & Interface



*6x SATA 2.5" Drives per Node for HTR
*6x NVMe 2.5" Drives per Node for HNR
*6x NVMe/SAS/SATA 2.5" Drives per Node for HNC0R (limit 4 NVMe Drives per Node)



Rear View



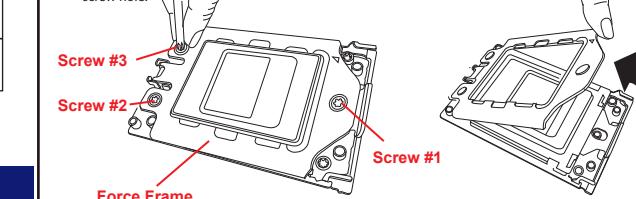
No.	Description
1	2 PCIe 3.0 x16 LP slots in each node
2	VGA Connector
3	IPMI LAN Port
4	USB (3.0) Ports
5	SIOM Slot
6	*Redundant Power Supply Modules

*Redundancy based on configuration and application load

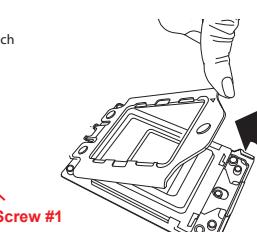
CPU Installation

Processor Installation

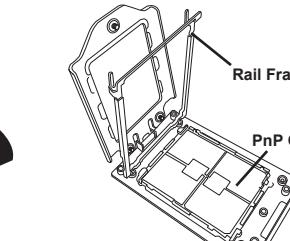
1. Removing the Processor Force Frame
Use a Torx T20 driver to loosen the screws holding down Force Frame in the sequence of 3-2-1. The screws are numbered on the Force Frame next to each screw hole.



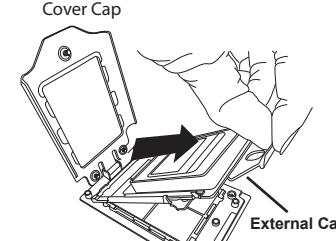
2. Raising the Force Frame



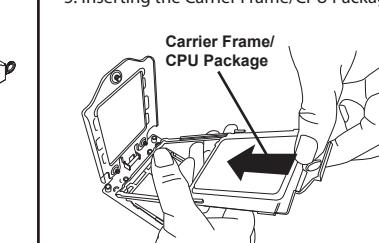
3. Lifting the Rail Frame



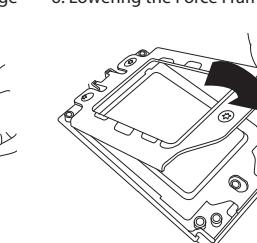
4. Removing the External Cap and PnP Cover Cap



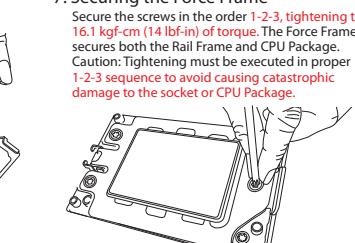
5. Inserting the Carrier Frame/CPU Package



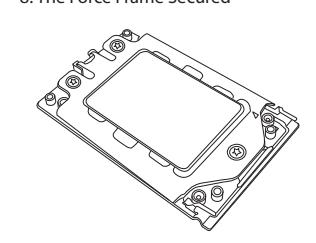
6. Lowering the Force Frame



7. Securing the Force Frame



8. The Force Frame Secured



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>

