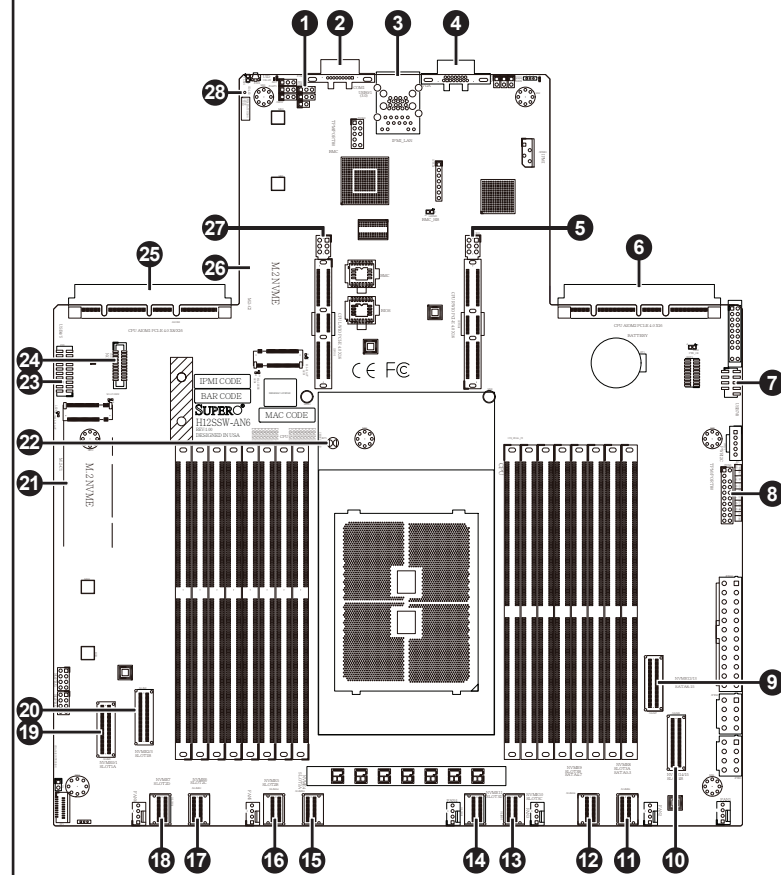


Board Layout

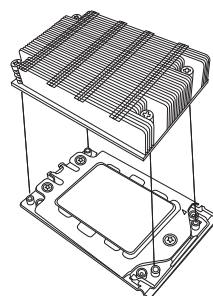


Item	Description
1	JWD1 (Watch Dog Control)
2	COM Port 1
3	IPMI LAN
4	Back Panel VGA Port
5	Right WIO Riser Slot
6	AIOM 2
7	Internal USB 3.0 7-8
8	TPM/Port 80
9	NVMe 12-13, SATA 8-15
10	NVMe 14-15
11	NVMe 8, SATA 0-3
12	NVMe 9, SATA 4-7
13	NVMe 10
14	NVMe 11

Item	Description
15	NVMe 4
16	NVMe 5
17	NVMe 6
18	NVMe 7
19	NVMe 0-1
20	NVMe 2-3
21	M.2 Slot C1
22	JBT1 (Clear CMOS)
23	USB 4-5
24	NCSI
25	AIOM 1
26	M.2 Slot C2
27	Left WIO Riser Slot
28	UID LED

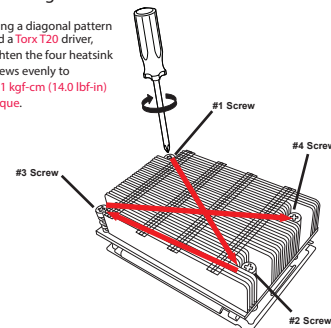
Heatsink Installation

1. Mounting the Heatsink

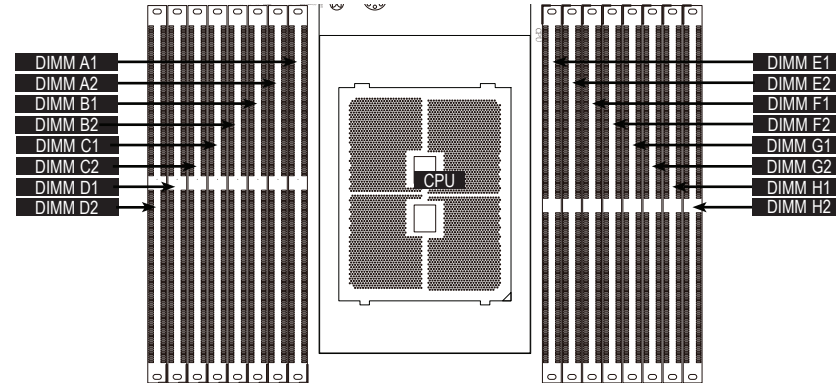


2. Securing the Heatsink

Using a diagonal pattern and a Torx T20 driver, tighten the four heatsink screws evenly to 16.1 kgf-cm (14.0 lbf-in) torque.



Memory



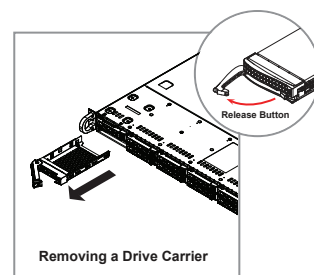
DIMM Module Population Sequence

When installing memory modules, the DIMM slots should be populated in the following order: DIMMA2, DIMMB2, DIMMC2, DIMMD2, DIMME2, DIMMF2, DIMMG2, DIMMH2, then DIMMA1, DIMMB1, DIMMC1, DIMMD1, DIMME1, DIMMF1, DIMMG1, DIMMH1.

- The blue slots must be populated first.
- 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.

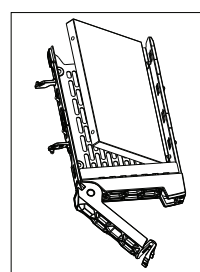
DIMM Population Guide (with 7002/7003 Processor)															
Channel															
DIMM D2	DIMM D1	DIMM C2	DIMM C1	DIMM B2	DIMM B1	DIMM A2	DIMM A1	DIMM E2	DIMM E1	DIMM F2	DIMM F1	DIMM G2	DIMM G1	DIMM H2	DIMM H1
1 DIMM (not recommended)															
2 DIMMs (not recommended)															
4 DIMMs (not recommended)															
6 DIMMs (for 7003 only)															
8 DIMMs															
12 DIMMs (for 7003 only)															
16 DIMMs															

Hard Drive Installation



Removing a Hot-Swap Drive Carrier from the Chassis

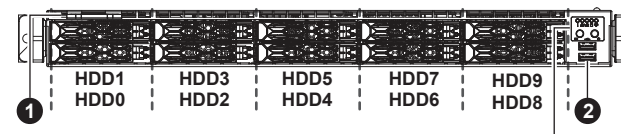
1. Press the release button on the drive carrier, which will extend the drive carrier handle.
2. Use the drive carrier handle to pull the drive out of the chassis.



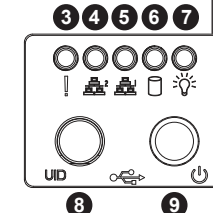
Installing a Drive

1. Place the empty drive carrier on a flat surface.
2. Retract the blue clips on the side of the carrier.
3. Insert a 2.5" hard drive at an angle into the carrier so that the mounting screw holes on the right side of the drive align with two stubs in the drive carrier. Insert this side into the drive carrier first, then push the other side into the drive carrier completely.
4. Push the blue clips back in to secure the drive. The drive should now be snug and secure in the drive tray.
5. Use the open handle of the drive carrier to insert the drive carrier into the open drive bay. Secure the drive carrier into the drive bay by closing the drive carrier handle.

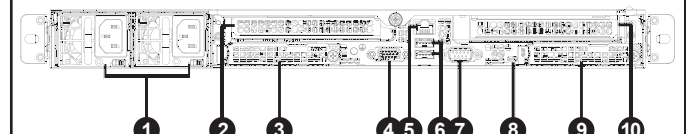
Front View & Interface



Item	Description
1	Service/Asset Tag
2	Two USB 2.0 Ports
3	Information LED
4	NIC2 LED
5	NIC1 LED
6	HDD LED
7	Power LED
8	UID Button/LED
9	Power Button



Rear View



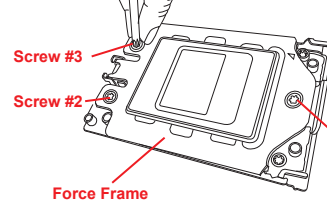
Item	Description
1	Power Supplies*
2	PCIe 4.0 x16 Slot (FHHL)
3	PCIe 4.0 x16 OCP 3.0 AIOM Slot
4	VGA Port
5	Dedicated IPMI LAN Port
6	Two USB 3.0 Ports
7	Serial Port
8	UID LED
9	PCIe 4.0 x8 OCP 3.0 AIOM Slot (NCSI)
10	PCIe 4.0 x16 Slot (FHHL)

* Full redundancy is based on the configuration and application load.

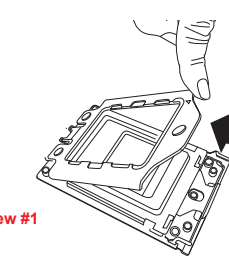
CPU Installation

Processor Installation

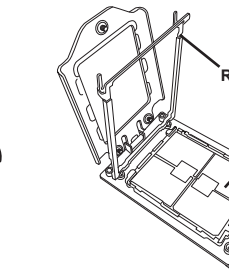
1. Removing the Processor Force Frame
Use a Torx T20 driver to loosen the screws holding down Force Frame in the sequence of 3-2-1. The screws are numbered on the Force Frame next to each screw hole.



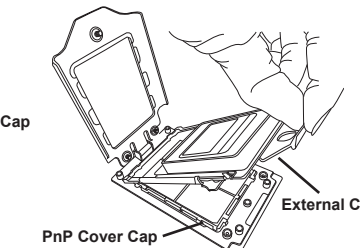
2. Raising the Force Frame



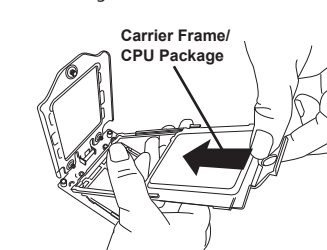
3. Lifting the Rail Frame



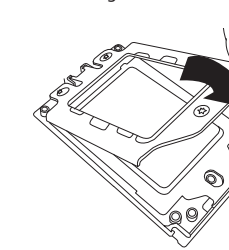
4. Removing the External Cap and PnP Cover Cap



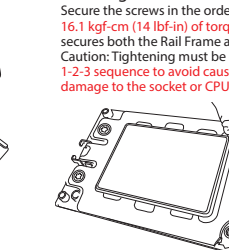
5. Inserting the Carrier Frame/CPU Package



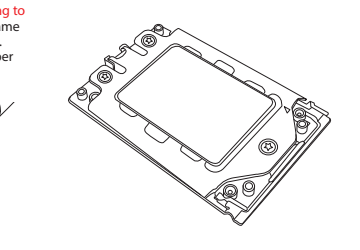
6. Lowering the Force Frame



7. Securing the Force Frame



8. The Force Frame Secured



Default Cable Routing

Connector on Board/Card	Connection Backplane	Qty of Drives	SMC Cable P/N
NVME8 PCIe3A SATA4-7 (MB-H12SSW-AN6)	CN1	4 SATA Drives	CBL-SAST-1230LP-100
NVME12/13 PCIe4A SATA8-15 (MB-H12SSW-AN6)	CN2/CN3	6 SATA Drives	CBL-SAST-1222-100

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>

