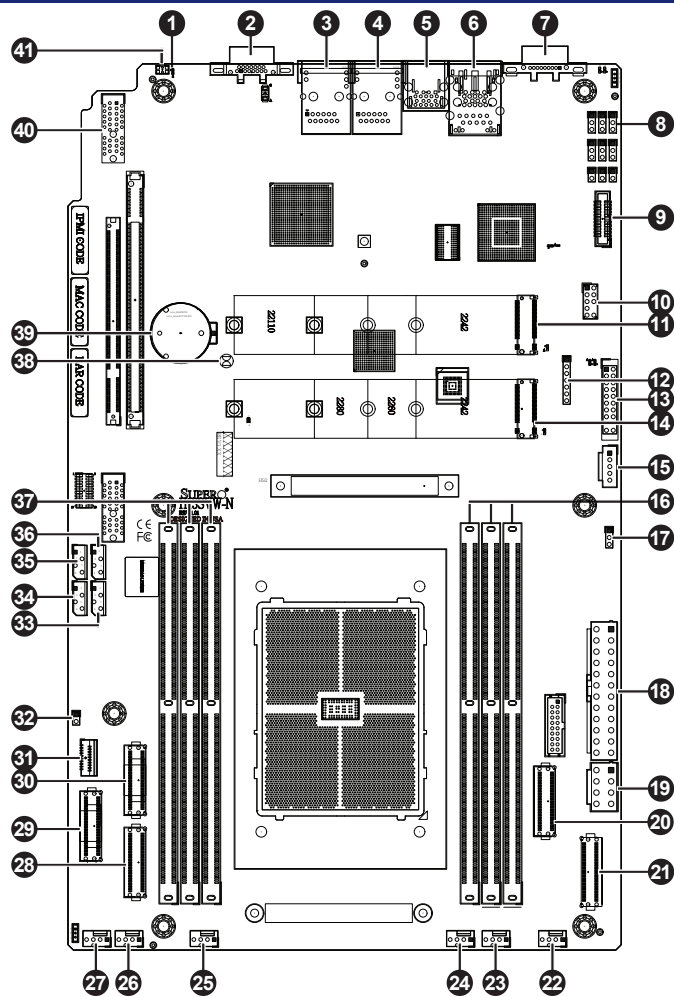


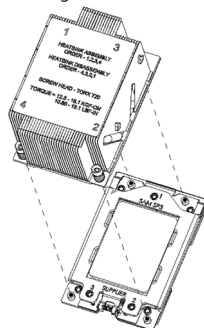
## Board Layout



Item	Description	Item	Description	Item	Description
1	UID LED	15	Power Supply IFC System Management Bus	29	NVME4/5 Ports
2	Rear Panel VGA Port	16	DIMM D1-F1	30	NVME0/1 Ports
3	LAN2	17	JVRM1	31	JFP1
4	LAN1	18	24-Pin ATX Power Supply Connector	32	Chassis Intrusion Header
5	USB 3.0 Ports	19	12V 8-Pin ATX CPU Power Connector	33	JBPNI2C1
6	RJ45 Dedicated IPMI LAN Port	20	NVME6/7, SATA0-7	34	JSEN1
7	COM Port (Serial Port)	21	NVME8/9, SATA8-15	35	4-Pin BMC External I2C Header (For an IPMI-Supported Card)
8	JUART1-3	22	FAN1	36	JNV12C1
9	JNCSI1	23	FAN2	37	DIMM A1-C1
10	TPM 2.0	24	FAN3	38	CMOS Clear
11	M.2-C2 PCIe Interface	25	FAN4	39	Onboard Battery
12	JCP1D1	26	FAN5	40	SXB1A Riser Card Slot
13	JF1	27	FAN6	41	Unit ID Switch
14	M.2-C1 PCIe Interface	28	NVME2/3 Ports		

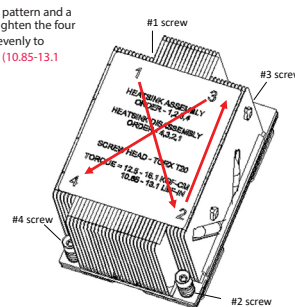
## Heatsink Installation

### 1. Mounting the Heatsink



### 2. Securing the Heatsink

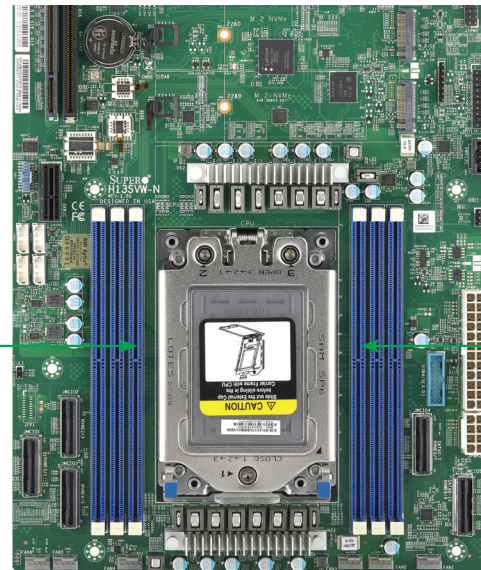
Using a diagonal pattern and a Torx T20 driver, tighten the four heatsink screws evenly to 12.5-15.1 kgf-cm (10.85-13.1 lbf-in.) torque.



## Memory

When populating the motherboard with DIMM modules, please keep in mind the following:

- Always use DDR5 DIMM modules of the same type, size and speed.
- All six memory channels should be populated with each channel having equal capacity, which should provide the best performance in most cases.
- In most configurations, populating fewer than six channels is supported, but not recommended.



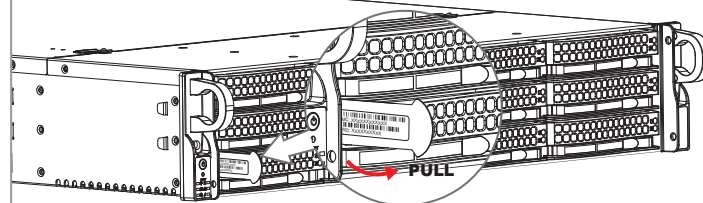
## Recommended Memory Channels

Channel		Node per Socket (NPS)				
C1	B1	A1	D1	E1	F1	
		1 Channel				NPS1
		2 Channels				NPS2, NPS1
		4 Channels				NPS4, NPS2, NPS1
		6 Channels				NPS2, NPS1

**Note:** For optimal performance, it is recommended to fully populate with six DIMMs.

## BMC Password Label

Pull-out tag with BMC unique password underneath.



Each system comes with a unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker underneath the service tag on the chassis.

If necessary, the password can be reset by the Supermicro IPMICFG tool.

For more information, please visit

<https://www.supermicro.com/en/solutions/management-software/bmc-resources>

## Front View & Interface



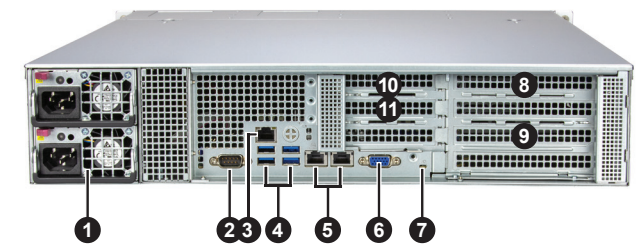
Item	Description	Item	Description
1	Power Button	8	Power Failure LED
2	Reset Button	9	Device Activity LED
3	Device Activity LED	10	Device Status LED
4	LAN1 LED	11	Service/Asset Tag, Pull-out identifier (with BMC ADMIN default password underneath)
5	Universal Information LED		
6	Power LED		
7	LAN2 LED		

Slot	Description
0-5	3.5" Hot-Swap NVMe*/SAS*/SATA Drive Bays
6-11	3.5" Hot-Swap SAS*/SATA Drive Bays

\* NVMe and SAS drive bays require additional optional parts.

## Rear View



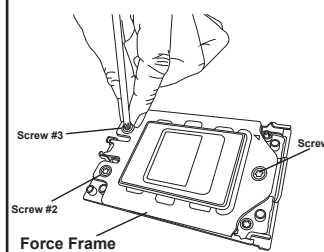
Item	Description	Item	Description
1	Redundant Power Supply Modules*	7	UID LED
2	Serial Port	8	PCIe 5.0 x16 FHFL
3	Dedicated BMC Port	9	PCIe 5.0 x16 FHFL
4	Four USB 3.0 Ports	10	PCIe 5.0 x8 LP
5	Two 10GB Base-T LAN Ports	11	PCIe 5.0 x8 LP
6	VGA Port		

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

## CPU Installation

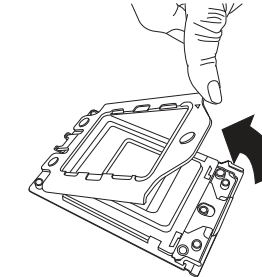
### 1. Removing the Processor Force Frame

Unscrew the screws holding down force frame in the sequence of 3-2-1.



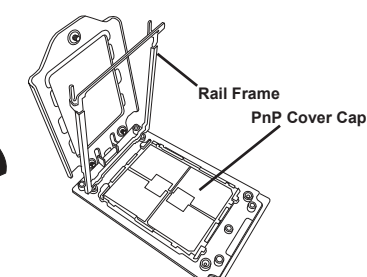
### 2. Raising the Force Frame

Gently allow the force frame to lift up to its stopping position.



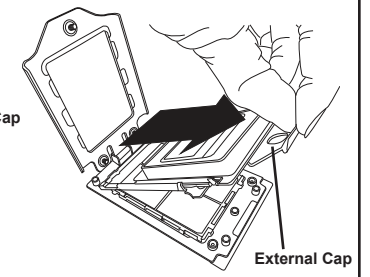
### 3. Lifting the Rail Frame

Lift the rail frame up by gripping the lift tabs near the front end of the rail frame.



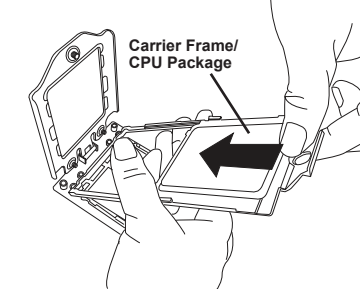
### 4. Removing the External Cap and PnP Cover Cap

Remove the external cap.



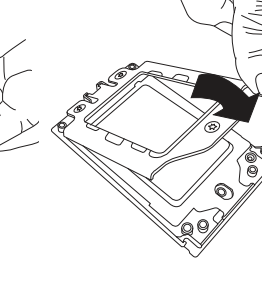
### 5. Inserting the Carrier Frame/CPU Package

Slide the carrier frame/CPU package downward to the bottom of the rail frame.



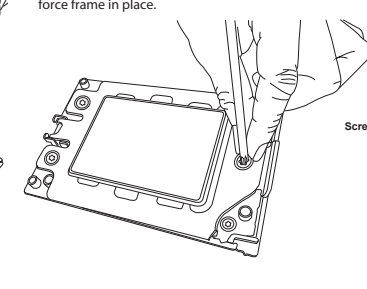
### 6. Lowering the Force Frame

Gently lower the rail frame down onto the socket.



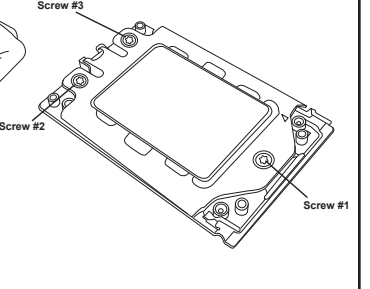
### 7. Securing the Force Frame

Using a Torx T20-bit torque screwdriver set to 12.5-15.0 kgfcm (10.85-13.01 lbf-in.), secure the force frame in place.



### 8. The Force Frame Secured

Re-screw the screws in the sequence of 1-2-3.



## Default Cable Routing

### 12x SATA

Connector on Board/Card	Connection Backplane	Drive Bay	SMC Cable P/N
JMCI04 SATA 0-7 NVMe 6/7 (MBD-H13SVW-NT)	CN1	0-3	CBL-MCIO-1243S4Y
	CN2	4-7	
JMCI05 SATA 8-15 NVMe 8/9 (MBD-H13SVW-NT)	CN3	8-11	CBL-MCIO-1227EQS4

## 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.

### 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>

