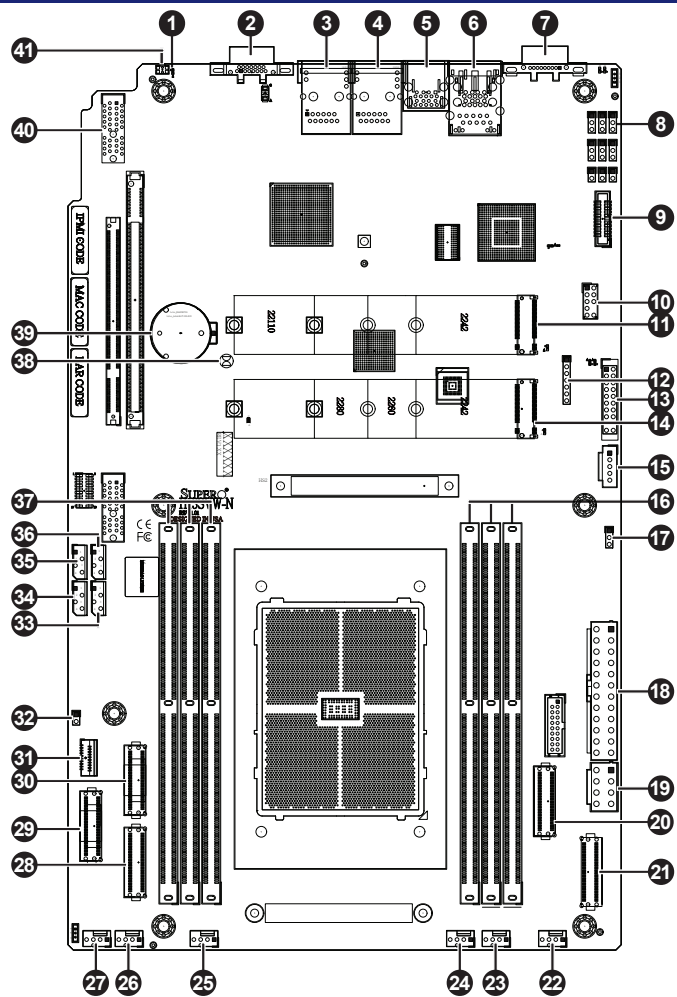


SUPERMICR SuperServer AS -115SV-WTNRT Quick Reference Guide

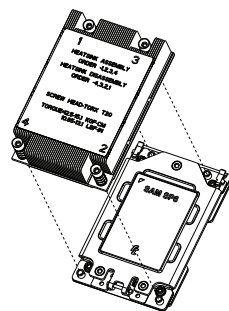
Board Layout



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		

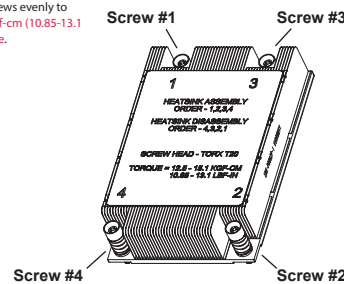
Heatsink Installation

1. Mounting the Heatsink



2. Securing the Heatsink

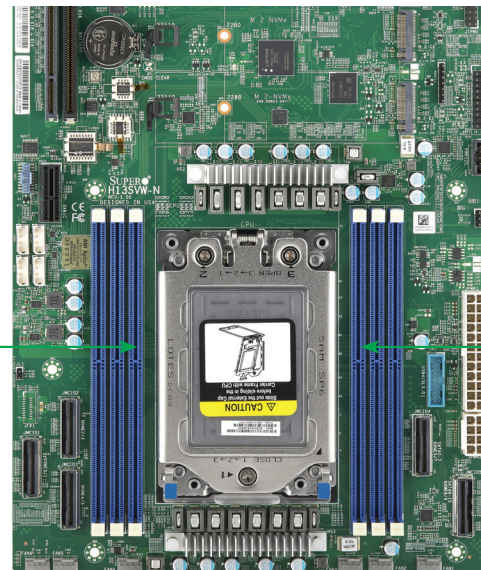
Using a diagonal pattern and a Torx T20 driver, tighten the four heatsink screws evenly to 12.5-15.1 kgf-cm (10.85-13.1 lbf-in) torque.



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.



DIMMA1
DIMMB1
DIMMC1

DIMMD1
DIMME1
DIMMF1

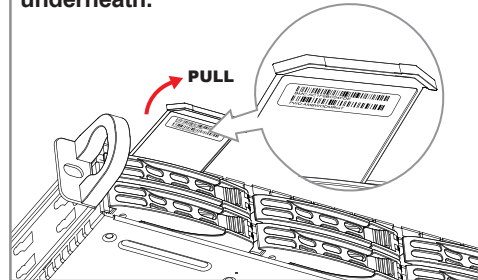
Recommended Memory Channels

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

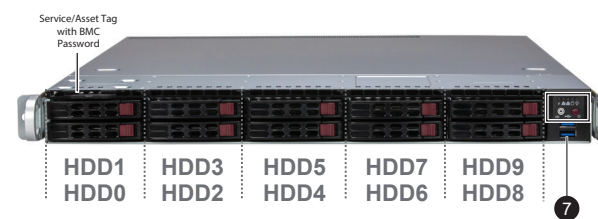
Pull-out tag with BMC unique password underneath.



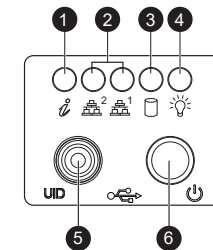
Each system comes with a unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker underneath the service tag on chassis. If necessary, the password can be reset by the Supermicro IPMICFG tool.

For more information, please visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>

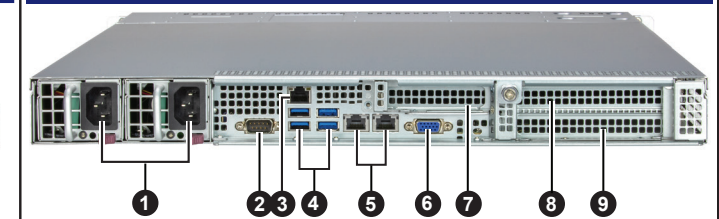
Front View & Interface



Item	Description
1	Universal Information LED
2	NIC1 (right) and NIC2 (left) LED
3	HDD LED
4	Power LED
5	UID Button
6	Power Button
7	Two USB 3.0 Ports



Rear View



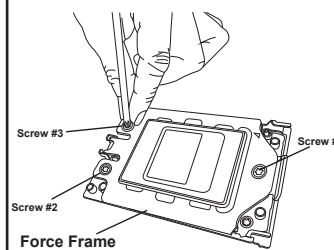
Item	Description
1	Redundant Power Supply Modules*
2	Serial Port
3	Dedicated BMC Port
4	Four USB 3.0 Ports
5	Two 10GB Base-T LAN Ports
6	VGA Port
7	PCI-E 5.0 x16 Expansion Slot 3 (LP)
8	PCI-E 5.0 x16 Expansion Slot 1 (FHFL)
9	PCI-E 5.0 x16 Expansion Slot 2 (FHFL)

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

CPU Installation

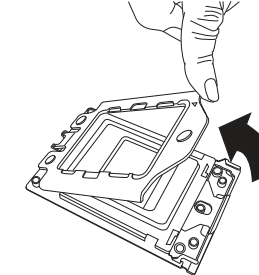
1. Removing the Processor Force Frame

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



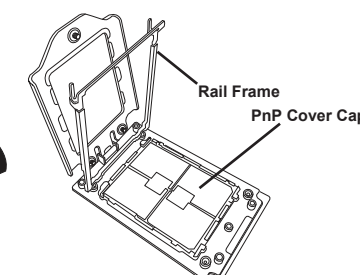
2. Raising the Force Frame

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



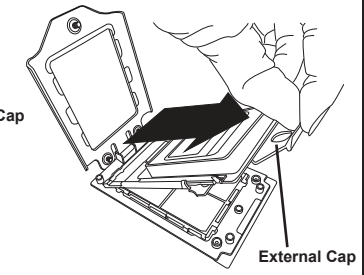
3. Lifting the Rail Frame

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



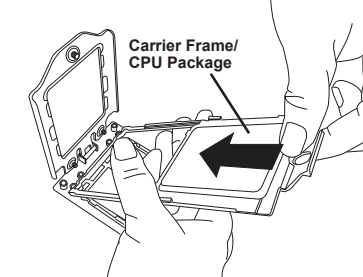
4. Removing the External Cap and PnP Cover Cap

Remove the external cap.



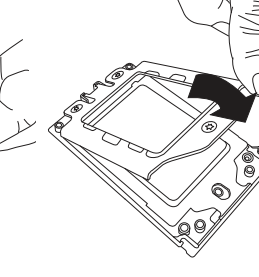
5. Inserting the Carrier Frame/CPU Package

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



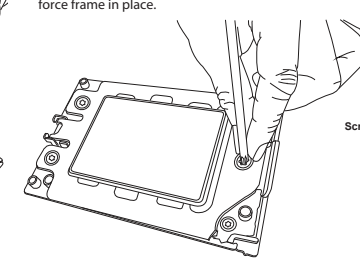
6. Lowering the Force Frame

Gently lower the rail frame down onto the socket.



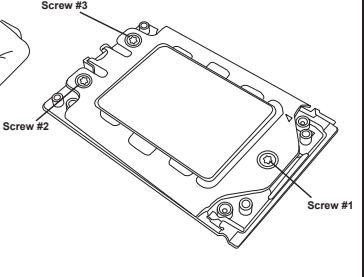
7. Securing the Force Frame

Using a Torx T20-bit torque screwdriver set to 12.5-15.0 kgf-cm (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

10x 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 SATA8-15/ NVME8/9 (MBD-H13SVW-NT)	CN3	8-9	CBL-MCIO-1227EQS4

Caution and Product Resources

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.

CAUTION:

This unit has redundant power sources. Please disconnect all the power cords before servicing.

