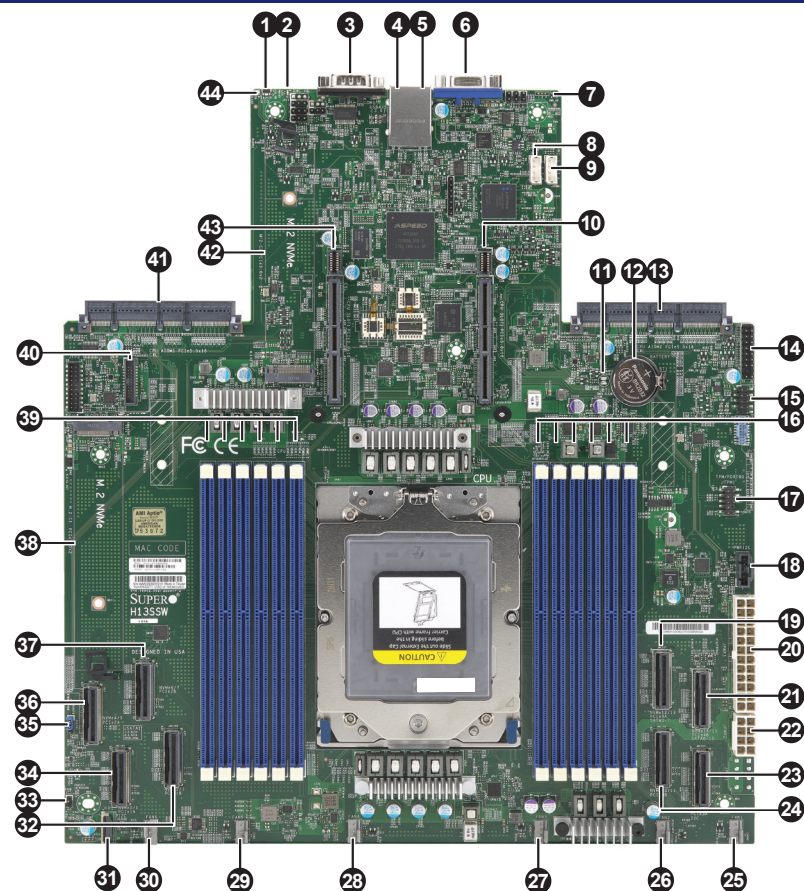


SUPERMICRO® SuperServer AS -1015CS-TNR / AS -1015CS-TNR-EU Quick Reference Guide

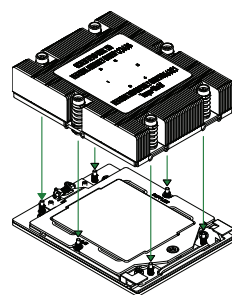
Board Layout



Item	Description	Item	Description	Item	Description
1	Unit ID Switch	16	DIMMG1-L1	31	Front Control Panel Header 1
2	BMC Heartbeat LED	17	TPM / Port 80	32	NVMe2/3
3	Rear Panel COM Port 1	18	Power Supply SMBus I ² C Header	33	Chassis Intrusion Header
4	USB 3.0 Ports 4/5	19	NVMe12/13 / SATA0-7 Hybrid Ports	34	NVMe0/1
5	RJ45 Dedicated IPMI LAN Port	20	24-Pin ATX Power Supply Connector	35	JSATA1: 3-Pin Connector for HDD
6	Rear Panel VGA Port	21	NVMe14/15 / SATA8-15 Hybrid Ports	36	NVMe4/5
7	Power LED	22	12V 8-Pin CPU Core Power Supply Connector	37	NVMe6/7
8	Inlet Sensor Header	23	NVMe8/9 Ports	38	M.2-C1 PCIe Interface
9	4-Pin BMC External I ² C Header (For an IPMI-Supported Card)	24	NVMe10/11 Ports	39	DIMMA1-F1
10	Right WIO Riser Slot	25	FAN1	40	NCSI Connector
11	CMOS Clear	26	FAN2	41	Supermicro Advanced I/O Module (AIOM) Slot 1
12	Onboard Battery	27	FAN3	42	M.2-C2 PCIe Interface
13	Supermicro Advanced I/O Module (AIOM) Slot 2	28	FAN4	43	Left WIO Rider Slot
14	Front Control Panel Header	29	FAN5	44	UID LED
15	USB 2.0 Ports 0/1	30	FAN6		

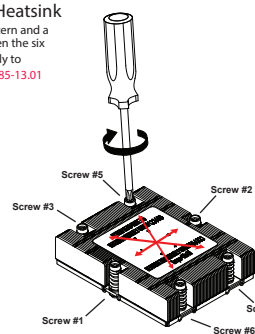
Heatsink Installation

1. Mounting the Heatsink

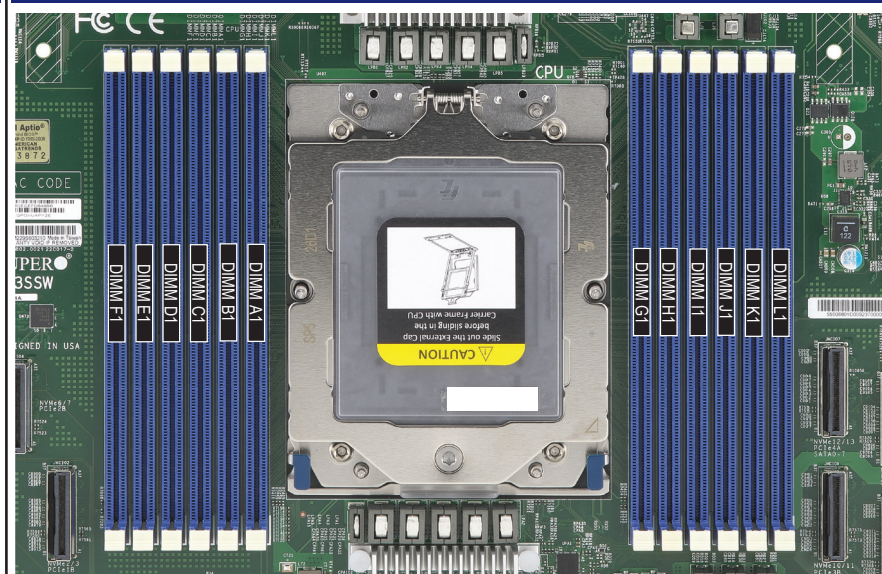


2. Securing the Heatsink

Using a diagonal pattern and a Torx T20 driver, tighten the six heatsink screws evenly to 12.5-15.0 kgf-cm (10.85-13.01 lbf-in) torque.



Memory



DIMM Module Population Sequence

There is no specific order or sequence required when installing memory modules. However, do keep the following in mind:

- 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). Populating with an even number of DIMMs will result in interleaved memory. However, to achieve the best memory performance, fully populate the motherboard with validated memory modules.

DIMM Population Guide

Type	1 DIMM Per Channel											
	F1	E1	D1	C1	B1	A1	CPU					
1 DIMM*						V						
2 DIMMs*						V	V					
4 DIMMs*				V		V	V		V			
6 DIMMs*				V	V	V	V	V	V			
8 DIMMs**		V		V	V	V	V	V	V		V	
10 DIMMs**		V	V	V	V	V	V	V	V	V	V	
12 DIMMs***	V	V	V	V	V	V	V	V	V	V	V	V

* AMD does not recommend installing 1, 2, 4, or 6 DIMMs per CPU socket, as it may impact performance.

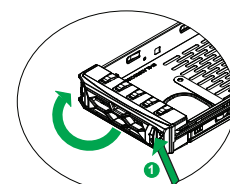
** Recommended for 16-64-core CPUs

*** Preferred for 84-core or higher CPUs, and recommended for all other CPUs

Hard Drive Installation

Removing a Hot-Swap Drive Carrier

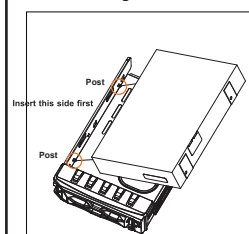
- Press the release button to extend the drive carrier handle.
- Use the handle to pull the drive out of the chassis.



Removing a Drive Carrier

Installing a 3.5" Drive

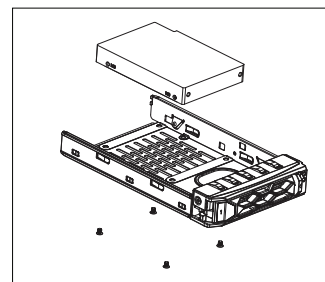
- Position the drive with the PCB side facing down and the connector end toward the rear of the tray.
- Tilt the drive to insert it onto the two posts on the left inside of the tray, then push in place to secure the drive.
- Insert the drive tray into the bay, with the release button on the right, until it clicks into place.



Installing a 3.5" Drive

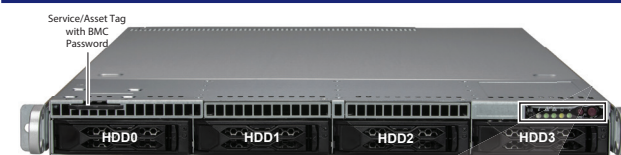
Installing a 2.5" Drive

- Screw the drive into the tray using the four screws underneath the tray.
- Insert the drive tray into the bay, with the release button on the right, until it clicks into place.

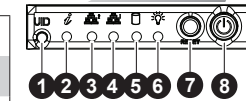


Installing a 2.5" Drive

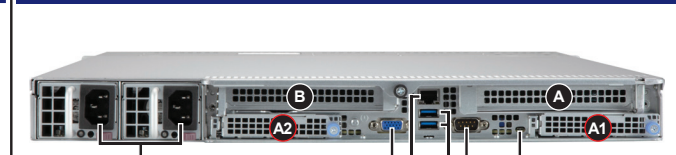
Front View & Interface



Item	Description
1	UID Button / BMC Reset
2	Information LED
3	NIC2 LED
4	NIC1 LED
5	HDD LED
6	Power LED
7	Reset Button
8	Power Button



Rear View



Item	Description
1	Redundant Power Supply Modules*
2	VGA Port
3	BMC LAN Port
4	Two USB 3.0 Ports
5	COM Port
6	UID LED

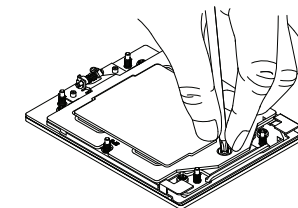
Expansion Slots	
Item	Description
A	PCIe 5.0 x16 slot: full-height, half-length
B	PCIe 5.0 x16 slot: full-height, half-length
A1	PCIe 5.0 x16 OCP 3.0 AIOM Slot (NCSI)
A2	PCIe 5.0 x16 OCP 3.0 AIOM Slot

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

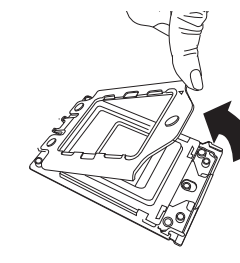
CPU Installation

1. Removing the Processor Force Frame

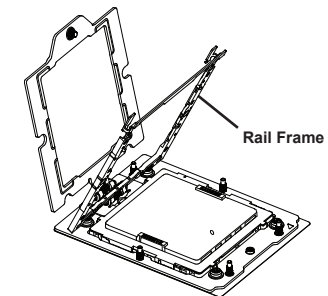
Use a Torx T20 screwdriver to loosen the screw holding down the force frame.



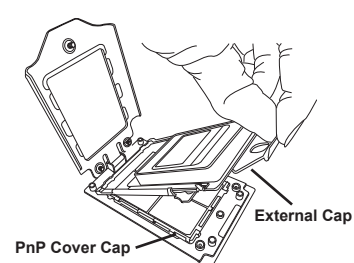
2. Raising the Force Frame



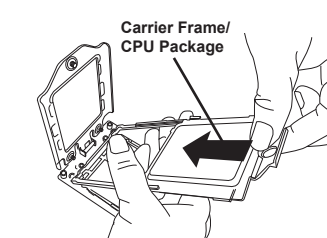
3. Lifting the Rail Frame



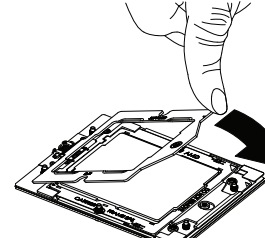
4. Removing the External Cap and PnP Cover Cap



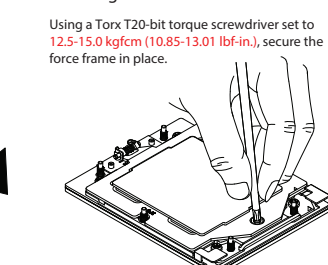
5. Inserting the Carrier Frame/CPU Package



6. Lowering the Force Frame

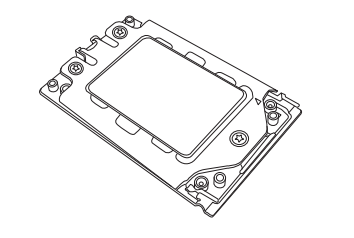


7. Securing the Force Frame



Using a Torx T20-bit 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



Default Cable Routing

4x SATA

Connector on Board/Card	Connection Backplane	Drive Bay	SMC Cable P/N
JMCIO7	JS1	0	CBL-MCIO-12700T4S2-85
NVMe12/13	JS2	1	
PCIe4A	JS3	2	
SATA0-7 (MBD-H13SSW)	JS4	3	

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>

