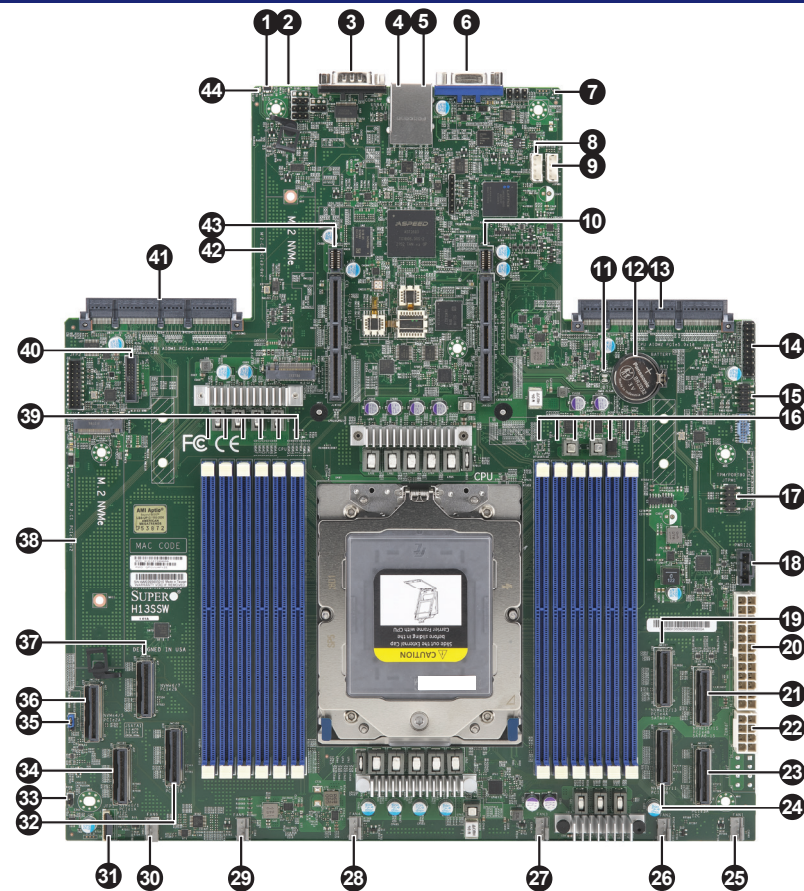


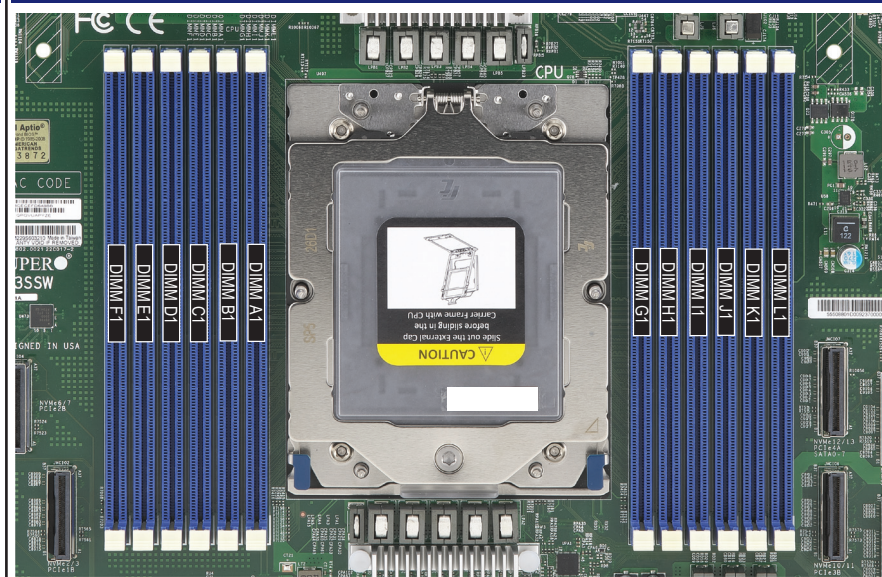
SUPERMICR[®] SuperServer AS -115CS-TNR / AS -115CS-TNR-EU Quick Reference Guide

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/O 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/O 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		

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

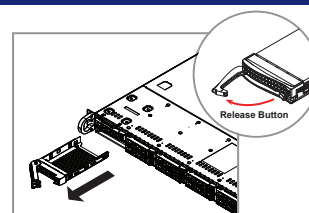
Type	1 DIMM Per Channel												
	F1	E1	D1	C1	B1	A1	CPU						
1 DIMM*						V							
2 DIMMs*						V		V					
4 DIMMs*				V	V	V		V	V				
6 DIMMs*			V	V	V	V		V	V	V			
8 DIMMs**		V	V	V	V	V		V	V	V	V		
10 DIMMs**		V	V	V	V	V		V	V	V	V	V	
12 DIMMs***	V	V	V	V	V	V		V	V	V	V	V	V

* 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

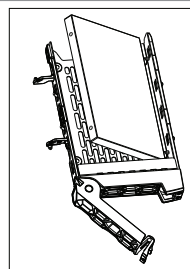
Hard Drive Installation



Removing a Hot-Swap Drive Carrier from the Chassis

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

Removing a Drive Carrier



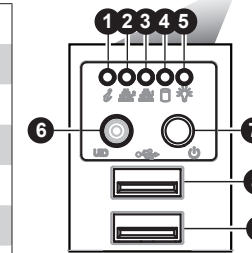
Installing a Drive

- Place the empty drive carrier on a flat surface.
- Retract the blue clips on the side of the carrier.
- 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.
- Push the blue clips back in to secure the drive. The drive should now be snug and secure in the drive tray.
- 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.

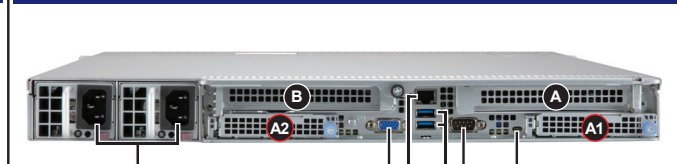
Front View & Interface



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



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

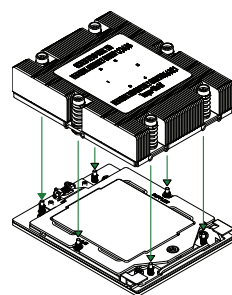
* Full redundancy is based on the configuration and application load.

CPU Installation

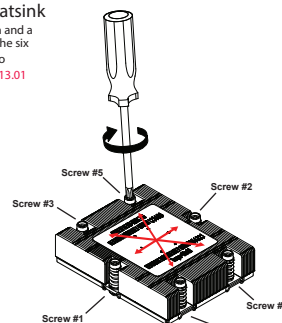
- Removing the Processor Force Frame
Use a Torx T20 screwdriver to loosen the screw holding down the force frame.
- Raising the Force Frame
- Lifting the Rail Frame
- Removing the External Cap and PnP Cover Cap
- Inserting the Carrier Frame/CPU Package
- Lowering the Force Frame
- Securing the Force 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.
- The Force Frame Secured

Heatsink Installation

- Mounting the Heatsink
- 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.



Default Cable Routing

Connector on Board/Card	Connection Backplane	Drive Bay	SMC Cable P/N
JMCIO7 NVMe12/13 PCIe4A SATA0-7 (MBD-H13SSW)	CN1	0-3	CBL-MCIO-1243S4Y
JMCIO8 NVMe14/15 PCIe4B SATA8-15 (MBD-H13SSW)	CN2	4-7	
	CN3	8-9	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

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>

