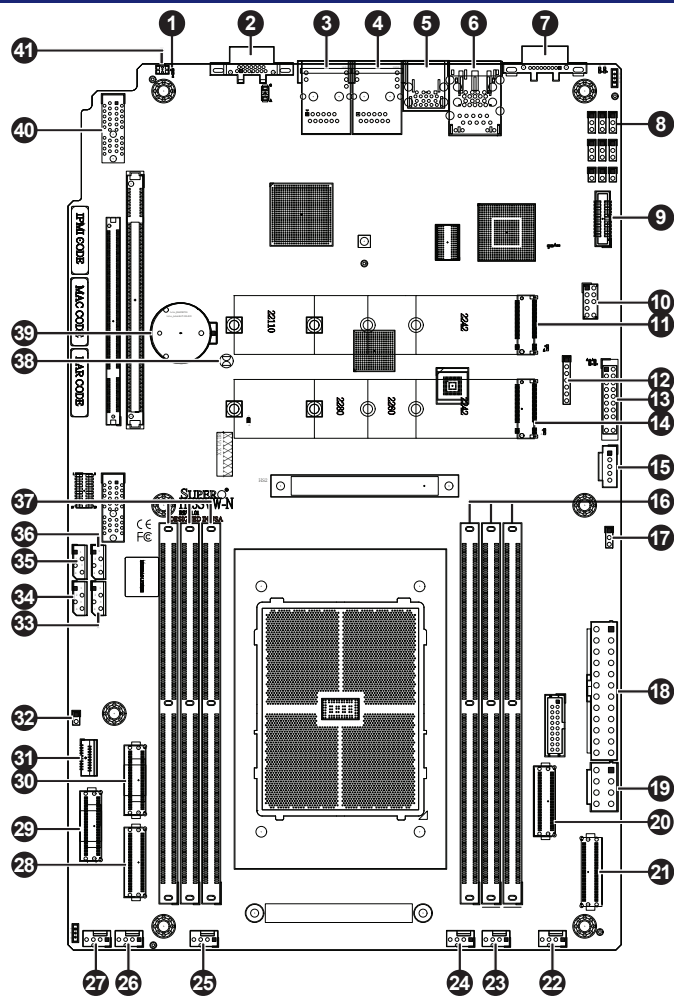


SUPERMICR SuperServer AS -1015SV-WTNRT Quick Reference Guide

Board Layout

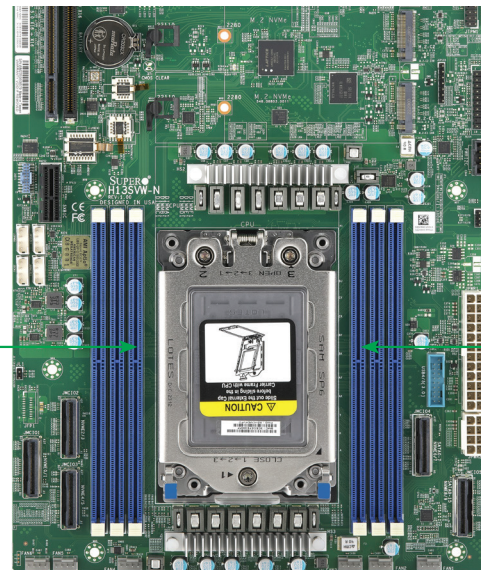


Item	Description	Item	Description	Item	Description
1	UID LED	15	Power Supply IFC System Management Bus	29	NVME4/5 Ports
2	Rear Panel VGA Port	16	DIMM D1-F1	30	NVME0/1 Ports
3	LAN2	17	JVRM1	31	JFP1
4	LAN1	18	24-Pin ATX Power Supply Connector	32	Chassis Intrusion Header
5	USB 3.0 Ports	19	12V 8-Pin ATX 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		

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.

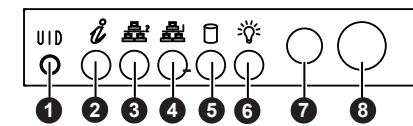


Recommended Memory Channels

Channel						Node per Socket (NPS)
C1	B1	A1	D1	E1	F1	
						NPS1
		✓				
						NPS2, NPS1
		✓	✓			
						NPS4, NPS2, NPS1
✓		✓	✓		✓	
						NPS2, NPS1
✓	✓	✓	✓	✓	✓	

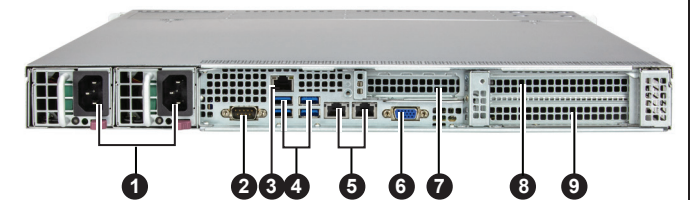
Note: For optimal performance, it is recommended to fully populate with six DIMMs.

Front View & Interface



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

Rear View



Item	Description
1	Redundant Power Supply Modules*
2	Serial Port
3	Dedicated IPMI 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.

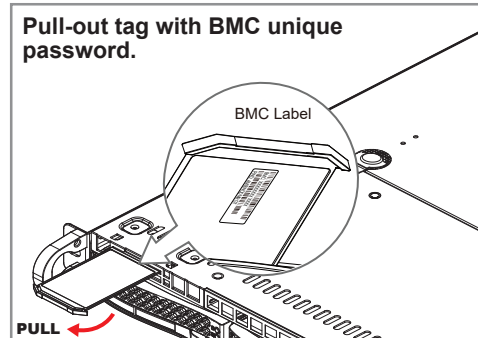
CPU Installation

- 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.

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.

BMC Password Label



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>

Default Cable Routing

Connector on Board/Card	Connection Backplane	Drive Bay	SMC Cable P/N
JMCIO4 SATA 0-7 NVMe 6/7 (MBD-H13SVW-NT)	SAS 0-3	0-3	CBL-MCIO-12700T4S2-85

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.

