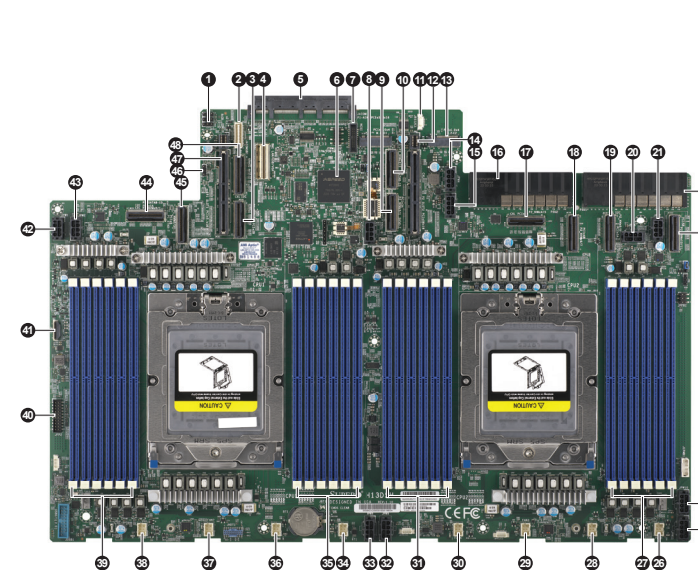


# SUPERMICR<sup>®</sup> A+ Server AS -1125HS-TNR Quick Reference Guide

## Board Layout



Item	Description	Item	Description
1	SATA2-15 Hybrid M.2 Select	25	JPW11*
2	AIO M1 Sideband Signal Header	26	System Cooling Fan Header 1
3	Processor 1 NVMe Ports 6/7	27	DIMM J19-J24
4	Front IPMI and Onboard VGS/USB/NC Module Connector	28	System Cooling Fan Header 2
5	Supermicro® Advanced I/O Module (AIO M) Slot	29	System Cooling Fan Header 3
6	BMC Heartbeat LED	30	System Cooling Fan Header 4
7	NCSI Connector	31	DIMM J13-J18
8	JPW3*	32	JPW5*
9	Processor 2 NVMe Ports 01, Processor 2 SATA Ports 0/7	33	JPW6*
10	Processor 2 NVMe Ports 2/3, Processor 2 SATA Ports 8-15	34	System Cooling Fan Header 5
11	CPU2 PCIe 5.0 x16 Slot	35	DIMM J7-J12
12	JPW2: 24-Pin ATX Main Power Connector	36	System Cooling Fan Header 6
13	CPU2 M.2 PCIe Interface (NVMe only)	37	System Cooling Fan Header 7
14	JPW4*	38	System Cooling Fan Header 8
15	JPW5*	39	DIMM J1-J6
16	Serverboard Main Power Supply Connector 2	40	Front VGA Connector
17	Processor 2 NVMe Ports 4/5	41	Front Panel Connector
18	Processor 2 NVMe Ports 6/7	42	JPW11*
19	Processor 2 NVMe Ports 8/9	43	JPW12*
20	JPW6*	44	Processor 1 NVMe Ports 01, Processor 1 SATA Ports 8-15
21	JPW7*	45	Processor 1 NVMe Ports 2/3, Processor 1 SATA Ports 0/7
22	Serverboard Main Power Supply Connector 1	46	JSA2 Hybrid M.2 Select
23	Processor 2 NVMe Ports 10/11	47	CPU1 PCIe 5.0 x16 Slot
24	JPW10*	48	Processor 1 NVMe Ports 4/5

\*12V 8-Pin Power Connector

## CPU Installation

- Remove the Processor Force Frame**  
Unscrew Screw #1 holding down the force frame.
- Raise the Force Frame**
- Lift the Rail Frame**
- Remove the External Cap**
- Align the Carrier Frame / CPU Package and Slide Down**
- Remove the PnP Cover Cap**
- Lower the Force Frame**
- Secure the Force Frame**  
Using a Torx T20 screwdriver set to 12.5-15.0 kgfcm (10.85-13.01 lbf-in), tighten the screw securing the force frame.

## Memory Support

Type	24 Slots CPU 1 DIMM Population Order											
	1 DIMM Per Channel						1 DIMM Per Channel					
	F1	E1	D1	C1	B1	A1	G1	H1	I1	J1	K1	L1
CPU1 & 1 DIMM *						V						
CPU1 & 2 DIMMs *						V	V					
CPU1 & 4 DIMMs *						V	V	V				
CPU1 & 6 DIMMs *						V	V	V	V			
CPU1 & 8 DIMMs **		V				V	V	V	V	V		
CPU1 & 10 DIMMs ***		V	V			V	V	V	V	V	V	
CPU1 & 12 DIMMs ***	V	V	V			V	V	V	V	V	V	V

Type	24 Slots CPU 2 DIMM Population Order											
	1 DIMM Per Channel						1 DIMM Per Channel					
	F1	E1	D1	C1	B1	A1	G1	H1	I1	J1	K1	L1
CPU2 & 1 DIMM *						V						
CPU2 & 2 DIMMs *						V	V					
CPU2 & 4 DIMMs *						V	V	V				
CPU2 & 6 DIMMs **		V				V	V	V	V			
CPU2 & 8 DIMMs **		V	V			V	V	V	V	V		
CPU2 & 10 DIMMs ***	V	V	V			V	V	V	V	V	V	
CPU2 & 12 DIMMs ***	V	V	V	V		V	V	V	V	V	V	V

**Note:** Recommend populating all memory DIMM channels for optimal performance.  
 \* 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

## Front View & Interface

Item	Description
1	USB 3.0 Port
2	Front Control Panel
3	Service/Asset Tag with BMC Password Reset
4	Storage I/O Bays

Item	Description
5	UID Button / BMC Reset
6	Information LED
7	NIC LED
8	HDD LED
9	Power LED
10	Power Button

## System Information

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>

## 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](http://www.supermicro.com/about/policies/safety_information.cfm)

**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.

**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.

**PRODUCT RESOURCES:**  
 For more information go to: <http://www.supermicro.com/support>

## Rear View

Item	Description	Description
1	One RJ45 Dedicated LAN Port	Power Supply LED Solid Green A valid power source is connected to the PSU and the PSU is operational
2	x16 Expansion Card Slot (Full Height, 6.5" L)	Power Supply LED Blinking Green PSU is in standby state (12VSB standby power only)
3	x16 Expansion Card Slot (Full Height, 10.5" L)	Redundant Power Supplies Power Supply LED Solid Green (Scenario 1) Power source to the PSU is disconnected or invalid but a second PSU is operational (Scenario 2) PSU failure and the PSU is not operational
4	Two USB 3.0 Ports	VGA Port Power Supply LED Blinking Green A PSU warning event occurred and the PSU is still operational
5	VGA Port	
6	NIC LED	
7	HDD LED	
8	Power LED	

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## NVMe Drive Cable Routing

### 12 NVMe

### 8 NVMe

Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable PIN
JMCO1 (M.2-H13D9H)	CN1 (BPN-NVME-H5119N-S8L)	0-1	CBL-MCIO-1356RFFB (Bundled Cable)
JMCO2 (M.2-H13D9H)	CN2 (BPN-NVME-H5119N-S8L)	2-3	
JMCO7 (M.2-H13D9H)	CN3 (BPN-NVME-H5119N-S8L)	4-5	CBL-MCIO-1242MS9EL
JMCO8 (M.2-H13D9H)	CN4 (BPN-NVME-H5119N-S8L)	6-7	CBL-MCIO-1359MFFR
JMCO9 (M.2-H13D9H)	CN1 (BPN-NVME-H5119N-S4R)	8-9	CBL-MCIO-1352MFFR
JMCO10 (M.2-H13D9H)	CN2 (BPN-NVME-H5119N-S4R)	10-11	CBL-MCIO-1343MFFR

## SATA Drive Cable Routing

### 12 SATA

### 8 SATA

Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable PIN
JMCO5 (M.2-H13D9H)	JSM1USM2 (BPN-NVME-H5119N-S8L)	0-7	CBL-MCIO-1255L4Y
JMCO6 (M.2-H13D9H)	JSM1 (BPN-NVME-H5119N-S4R)	8-11	CBL-MCIO-1255L4Y

## Storage AOC Drive Cable Routing

### 12 SAS/SATA

### 8 SAS/SATA

Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable PIN
SAS AOC CN1	JSM1USM2 (BPN-NVME-H5119N-S8L)	0-7	CBL-SAST-1273LP-100
SAS AOC CN2	JSM1 (BPN-NVME-H5119N-S4R)	8-11	CBL-SAST-1262LP-100

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