

SUPERMICR[®] A+ Server AS -2025HS-TNR Quick Reference Guide

Board Layout

Item	Description	Item	Description
1	SATA22-15 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 VGSU/SSNIC 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	JPW9*
9	Processor 2 NVMe Ports 01, Processor 2 SATA Ports 0/7	33	JPW5*
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	JPW2*
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	JSA22 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

Memory Support

24 Slots CPU 1 DIMM Population Order												
Type	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	V				
CPU1 & 6 DIMMs *					V	V	V	V	V	V		
CPU1 & 8 DIMMs **			V	V	V	V	V	V	V	V	V	
CPU1 & 10 DIMMs **			V	V	V	V	V	V	V	V	V	V
CPU1 & 12 DIMMs ***	V	V	V	V	V	V	V	V	V	V	V	V

24 Slots CPU 2 DIMM Population Order												
Type	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	V				
CPU2 & 6 DIMMs **					V	V	V	V	V	V		
CPU2 & 8 DIMMs **			V	V	V	V	V	V	V	V	V	
CPU2 & 10 DIMMs **			V	V	V	V	V	V	V	V	V	V
CPU2 & 12 DIMMs ***	V	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 64-Core or higher CPUs, and recommended for all other CPUs

Front View & Interface

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

Service/Asset Tag with BMC Password

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

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.

WARNING:
 To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cards 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	Slot	Description
1	Power Supply 1	1	Option 1: PCIe 5.0 x16 (FH, 10.5" L)
2	Power Supply 2	2	Option 2: Not available
3	BMC LAN Port	3	Option 3: PCIe 5.0 x8 (FH, 10.5" L)
4	USB Ports	4	Option 4: Not available
5	VGA Port	5	Option 5: PCIe 5.0 x8 (FH, 10.5" L)

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NVMe Drive Cable Routing

Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMC01 (M.2-H13D5H)	NVMe1	0-1	CBL-MC10-1249M5
JMC02 (M.2-H13D5H)	NVMe2	2-3	CBL-MC10-1250M5-Z
JMC07 (M.2-H13D5H)	NVMe3	4-5	CBL-MC10-1249M5
JMC08 (M.2-H13D5H)	NVMe4	6-7	CBL-MC10-1249M5
JMC09 (M.2-H13D5H)	NVMe5	8-9	CBL-MC10-1249M5
JMC10 (M.2-H13D5H)	NVMe6	10-11	CBL-MC10-1249M5

SATA Drive Cable Routing

Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMC08 (M.2-H13D5H)	CN1/CN2	0-7	CBL-MC10-1255S4Y
JMC09 (M.2-H13D5H)	CN3	8-11	CBL-MC10-1255S4Y

Storage AOC Drive Cable Routing

Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	CN1/CN2	0-7	CBL-SAST-1278F-100
SAS AOC CN2	CN3	8-11	CBL-SAST-1278F-100

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