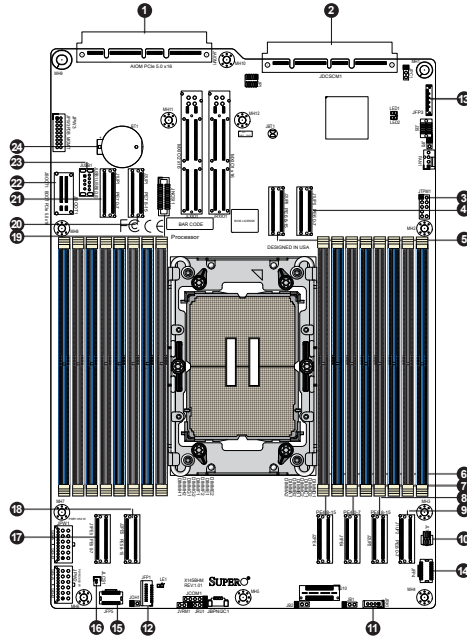


SUPERMICR[®] SuperServer SYS-112C-TN Quick Reference Guide

Board Layout



Item	Description	Item	Description
1	JAIOM1: Supermicro Advanced Input/Output Module PCIe 5.0 x16	13	JFP3: Mini DisplayPort and USB Front Control Board Connector
2	JDCSCM1: Reserved for DC-SCM for AOM-SCM-DC6 Module	14	JFP4: DC-MHS Primary Front Panel Connector
3	JTPM1: TPM/Port 80 Connector	15	JFP5: DC-MHS Secondary Front Panel Connector
4	J1UP0*: MCIO PCIe 5.0 x8 Connector	16	JLCS1: Liquid Cooling Solution Header
5	J2UP0*: MCIO PCIe 5.0 x8 Connector	17	J1PE5: MCIO PCIe 5.0 x8 Connector
6	J2PE4: MCIO PCIe 5.0 x8 Connector	18	J2PE5: MCIO PCIe 5.0 x8 Connector
7	J1PE4: MCIO PCIe 5.0 x8 Connector	19	JNCS1: NC-SI Header
8	J2UP2*: MCIO PCIe 5.0 x8 Connector	20	J2UP1*: MCIO PCIe 5.0 x8 Connector
9	J1UP2*: MCIO PCIe 5.0 x8 Connector	21	J1UP1*: MCIO PCIe 5.0 x8 Connector
10	JL1: Chassis Intrusion Header	22	JBOOT1: M.2 Boot Tray Connector
11	JRK1: Intel VROC RAID Key Header	23	JUSB1: USB 3.2 Gen 1 Type-A Header
12	JFP1: Front Control Board Header	24	BT1: Onboard Battery

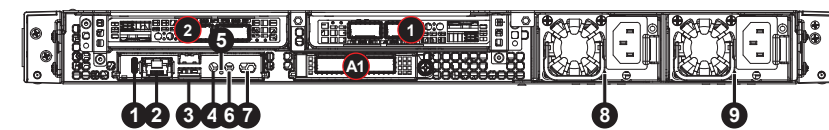
Note: Items marked with an asterisk are only available for Intel® Xeon® 6 with P-cores 1-socket solutions.

Memory Support

Type	Channel															
	H1	H2	G1	G2	F1	F2	E1	E2	CPU							
1 DIMM									A2	A1	B2	B1	C2	C1	D2	D1
4 DIMMs			V				V		V					V		
8 DIMMs	V		V		V		V		V	V	V	V	V	V	V	V
16 DIMMs	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V

Note: Refer to the user manual for memory module [rank] and [DRAM density] requirements when using Intel® Xeon® 6 CPUs.

Rear View



Item	Description	Item	Description	Item	Description	Item	Slot Description
1	USB Type-C Port for debugging (through DC-SCM)	4	UID Button/LED (through DC-SCM)	7	Mini Display Port (through DC-SCM)	A1	PCIe 5.0 x16 A1OM Slot
2	Dedicated BMC LAN Port (through DC-SCM)	5	Information LED (through DC-SCM)	8	Power Supply 2	1	PCIe 5.0 x16 Slot (FH, 6.6" L)
3	Two USB 3.2 Gen 1 Ports (through DC-SCM)	6	Power Button/LED (through DC-SCM)	9	Power Supply 1	2	PCIe 5.0 x16 Slot (FH, 6.6" L)

CPU Installation, supporting a single Intel® Xeon® 6 Processor (LGA 4710)

A. Creating the Intel Xeon 6 CPU Carrier Assembly

- Locate small gold triangle (Pin 1) on processor and corresponding hollowed triangle on carrier.
- Using the triangles as a guide, carefully align and place Point A of the processor into the carrier.

Gently snap into place to fasten onto Point B.

Make sure the lever is pressed down before installing the processor.

B. Assembling the Processor Heatsink Module (PHM)

- If this is a new heatsink, the thermal grease has been preapplied. Otherwise, apply the proper amount of thermal grease.
- Hold the processor carrier assembly so the processor's gold contacts are facing up, then align the holes of the processor carrier assembly with the holes on the heatsink. Press the processor carrier assembly down until it snaps into place. The plastic clips of the processor carrier assembly will lock at the four corners.
- Examine all corners to ensure that the plastic clips on the processor carrier assembly are firmly attached to the heatsink.

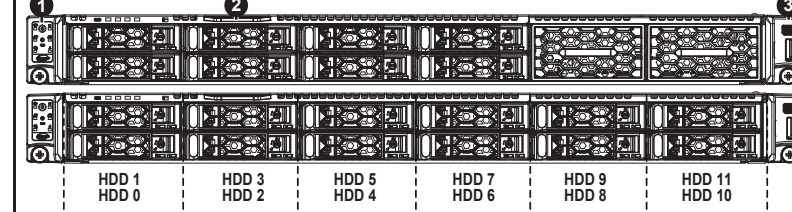
C. Preparing the CPU Socket for Installation

Gently pull off the plastic protective cover by one corner to remove it from the CPU socket.

D. Installing the Process Heatsink Module

- Locate four threaded fasteners (a, b, c, d) on the CPU socket.
- Locate four PEEK nuts (A, B, C, D) and four rotating wires (1, 2, 3, 4) on the heatsink as shown below. Gently place the heatsink on the CPU socket, making sure that each nut is properly aligned with its corresponding threaded fastener.
- Press all four rotating wires outward to latch the PHM onto the CPU socket.
- With a T30-bit screwdriver, tighten all PEEK nuts in the sequence of A, B, C, and D with even pressure not greater than 8.0 in-lb. (0.904 N-m).

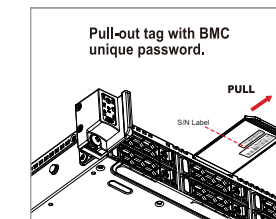
Front View & Interface



Note: Bays HDD 8-HDD 11 are only available for Intel® Xeon® 6 with P-cores one-socket solutions.

Item	Description	Item	Description
1	Front Control Panel	4	Power Button
2	Service/Asset Tag with BMC Password Reset	5	Power LED
3	Front I/O Panel (optional)	6	NIC2 LED
		7	Power Fail LED
		8	HDD LED
		9	UID Button
		10	NIC1 LED
		11	Information LED

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, visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>

Caution and Product Resources

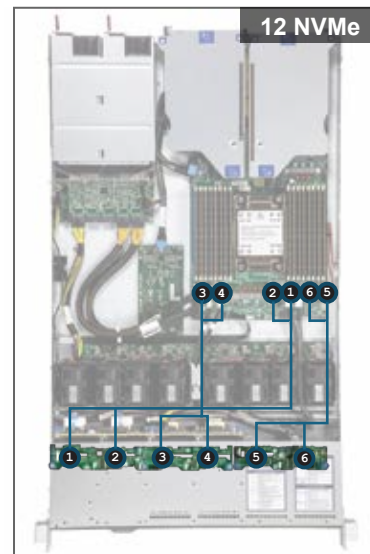
- SAFETY INFORMATION**
IMPORTANT: See installation instructions and safety warnings before connecting system to power supply.
https://www.supermicro.com/about/policies/safety_information.cfm
- WARNING**
To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords. If any CPU socket is 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. For more information, go to <https://www.supermicro.com/support>

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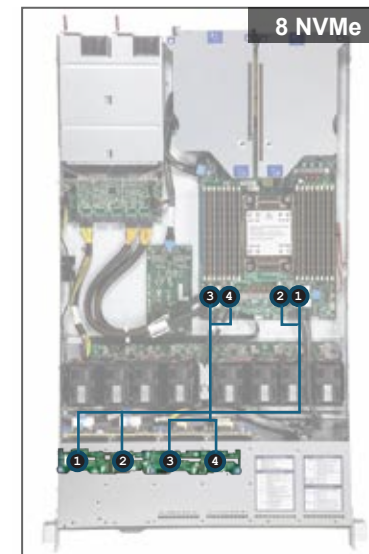
Rev. 1.0a

NVMe Drive Cable Routing



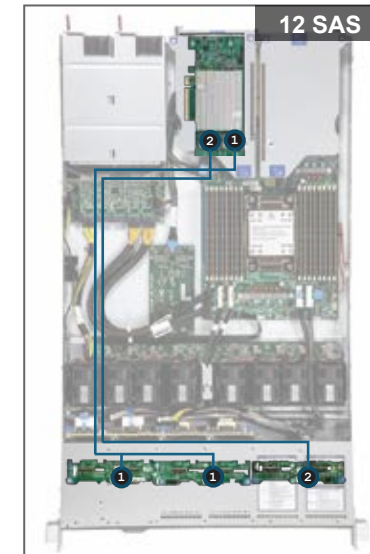
Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
J1PE4	CN1 (BPN-NVME5-HS119N-S8L)	0-1	CBL-MCIO-1257MSREL
J2PE4	CN2 (BPN-NVME5-HS119N-S8L)	2-3	CBL-MCIO-1257MSREL
J1PE5	CN3 (BPN-NVME5-HS119N-S8L)	4-5	CBL-MCIO-1330MSL
J2PE5	CN4 (BPN-NVME5-HS119N-S8L)	6-7	CBL-MCIO-1330MSL
J1UP2	CN1 (BPN-NVME5-HS119N-S4R)	8-9	CBL-MCIO-1330MSL
J2UP2	CN2 (BPN-NVME5-HS119N-S4R)	10-11	CBL-MCIO-1330MSL

Note: J1UP1 and J2UP2 are only available for Intel® Xeon® 6 with P-cores one-socket solutions.

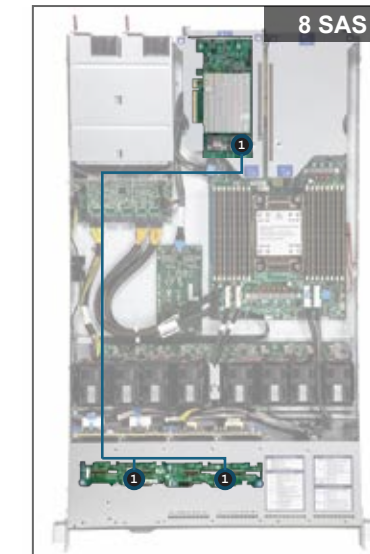


Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
J1PE4	CN1 (BPN-NVME5-HS119N-S8L)	0-1	CBL-MCIO-1257MSREL
J2PE4	CN2 (BPN-NVME5-HS119N-S8L)	2-3	CBL-MCIO-1257MSREL
J1PE5	CN3 (BPN-NVME5-HS119N-S8L)	4-5	CBL-MCIO-1330MSL
J2PE5	CN4 (BPN-NVME5-HS119N-S8L)	6-7	CBL-MCIO-1330MSL

Storage AOC Drive Cable Routing



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	JSM1/JSM2 (BPN-NVME5-HS119N-S8L)	0-7	CBL-SAST-1273LP-100
SAS AOC CN2	JSM1 (BPN-NVME5-HS119N-S4R)	8-11	CBL-SAST-1262LP-100



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	JSM1/JSM2 (BPN-NVME5-HS119N-S8L)	0-7	CBL-SAST-1273LP-100

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<https://www.supermicro.com>



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