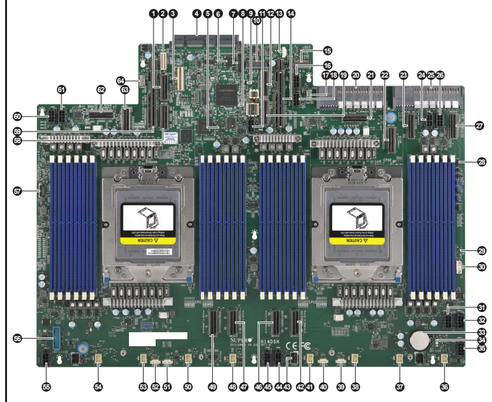
SUPERMICRO® A+ Server AS -1126HS-TN Quick Reference Guide

Board Layout



	Description
1	**P1 NVMe 4/5, PCIe 2A:** NVMe Ports 4/5, supported by CPU1
2	**JAIOMSB1**
3	**JIO1:** Onboard VGA/USB/NIC I/O Module Connector
4	**JAIOM1:** Supermicro Advanced Input/Output (AIOM) PCIe 5.0 x16 Connector
5	**JCPLD1**
6	**JTPM1:** Trusted Platform Module/Port 80 Connector
7	**JNCSI:** NC-SI Connector
8	**LED BMC:** BMC Heartbeat LED
9	**JL1:** Chassis Intrusion Header
10	**M.2-C1:** M.2 PCIe Interface (NVMe only)
11	**JPW3:** 12V 8-Pin GPU/BPN/AOC Power Connector
12	**P2 NVMe 2/3, PCIe 4B, SATA 8-16:** NVMe Ports 2/3, P2 SATA 8-15, supported by CPU2
13	**JRSDC1:** 4-Pin BMC External I²C Header for Riser Card
14	**P2 SLOT1:** PCIe 5.0 x16 Slot, CPU2
15	**M.2-C2:** M.2 PCIe Interface (NVMe only)
16	**JPW4:** 12V 8-Pin GPU/BPN/AOC Power Connector
17	**FANSTBY:** 4-Pin Header
18	**JPW5:** 12V 8-Pin GPU/BPN/AOC Power Connector
19	**P2 NVMe 0/1, PCIe 4A, SATA 0-7:** NVMe Ports 0/1, P2 SATA 0-7, supported by CPU2
20	**P5U2:** Power Supply Module Connector
21	**P2 NVMe 4/5, PCIe 5A:** NVMe Ports 4/5, supported by CPU2
22	**P2 NVMe 6/7, PCIe 5B:** NVMe Ports 6/7, supported by CPU2
23	**P2 NVMe 8/9, PCIe 6A:** NVMe Ports 8/9, supported by CPU2
24	**JPW6:** 12V 8-Pin GPU/BPN/AOC Power Connector
25	**P5U1:** Power Supply Module Connector
26	**JPW7:** 12V 8-Pin GPU/BPN/AOC Power Connector
27	**P2 NVME 10/11, PCIe 6B:** NVMe Ports10/11, supported by CPU2
28	**JVRM1**
29	**JSDV1**
30	**JPMB1:** 4-Pin External BMC I²C Header
31	**JPW10:** 12V 8-Pin GPU/BPN/AOC Power Connector
32	**JPW11:** 12V 8-Pin GPU/BPN/AOC Power Connector

	Description
33	**BT1:** Onboard Battery
34	**JBT1:** CMOS Clear
35	**JPW13:** 8V/12V Backplane Power Connector
36	**FAN1** 4-Pin Header
37	**FAN2** 4-Pin Header
38	**FAN3** 4-Pin Header
39	**JBPN2C2:** 4-Pin BMC External I²C Header for Backplane
40	**JNVI2C2:** 4-Pin I²C Header for NVMe Backplane Hot-Swap Support
41	**FAN4** 4-Pin Header
42	**P2 NVMe 14/15, PCIe 7B:** NVMe Ports 14/15, XGMI, supported by CPU2
43	**JSEN2:** 4-Pin BMC External I²C Header for Liquid Cooling Module Leak Detection Sensor
44	**JPW9:** 12V 8-Pin GPU/BPN/AOC Power Connector
45	**JPW8:** 12V 8-Pin GPU/BPN/AOC Power Connector
46	**P2 NVMe 12/13, PCIe 7A:** NVMe Ports 12/13, XGMI, supported by CPU2
47	**P1 NVMe 8/9, PCIe 3A:** NVMe Ports 8/9, XGMI, supported by CPU1
48	**FAN5** 4-Pin Header
49	**P1 NVMe 10/11, PCIe 3B:** NVMe Ports 10/11, XGMI, supported by CPU1
50	**FAN6** 4-Pin Header
51	**JBPN2C1:** 4-Pin BMC External I²C Header for Backplane
52	**JNVI2C1:** 4-Pin I²C Header for NVMe Backplane Hot-Swap Support
53	**FAN7** 4-Pin Header
54	**FAN8** 4-Pin Header
55	**JPV12:** 12V 8-Pin GPU/BPN/AOC Power Connector
56	**JUSB1:** Front Panel USB Connector
57	**JFP1:** Front Control Panel Connector
58	**P1 NVMe 6/7, PCIe 2B:** NVMe Ports 6/7, supported by CPU1
59	**P1 SLOT1:** PCIe 5.0 x16 Slot, CPU1
60	**JPV1:** 12V 8-Pin GPU/BPN/AOC Power Connector
61	**JPV2:** 12V 8-Pin GPU/BPN/AOC Power Connector
62	**P1 NVMe 0/1, PCIe 1A, SATA 8-15:** NVMe Ports 0/1, P1 SATA 8-15, supported by CPU1
63	**P1 NVMe 2/3, PCIe 1B, SATA 0-7:** NVMe Ports 2/3, P1 SATA 0-7, supported by CPU1
64	**FAN9** 4-Pin Header

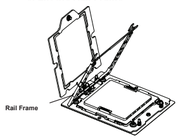
CPU Installation

1. Remove the Processor Force Frame

Unscrew the screws holding down the force frame in the sequence of 3-2-1.

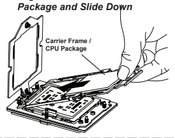
2. Raise the Force Frame

3. Lift the Rail Frame



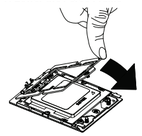
4. Remove the External Cap

5. Align the Carrier Frame / CPU Package and Slide Down



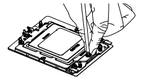
6. Remove the PnP Cover Cap

7. Lower the Force Frame



8. Secure the Force Frame

Using a Torx T20 screwdriver set to 12.5-15.0 kgfcm (10.8-13.0 lbf-in), tighten the screws securing the force frame in sequence of 3-2-1.



Memory Support

DIMM Population Guide

Type		1 DIMM per Channel											
		F1	E1	D1	C1	B1	A1	G1	H1	I1	J1	K1	L1
2 CPUs & 2 DIMMs	CPU1						V						
	CPU2						V						
2 CPUs & 4 DIMMs	CPU1						V	V					
	CPU2						V	V					
2 CPUs & 8 DIMMs	CPU1				V		V	V		V			
	CPU2				V		V	V		V			
2 CPUs & 12 DIMMs	CPU1				V	V	V	V	V	V			
	CPU2				V	V	V	V	V	V			
2 CPUs & 16 DIMMs	CPU1		V		V	V	V	V	V	V		V	
	CPU2		V		V	V	V	V	V	V		V	
2 CPUs & 20 DIMMs	CPU1		V	V	V	V	V	V	V	V	V	V	
	CPU2		V	V	V	V	V	V	V	V	V	V	
2 CPUs & 24 DIMMs	CPU1	V	V	V	V	V	V	V	V	V	V	V	V
	CPU2	V	V	V	V	V	V	V	V	V	V	V	V

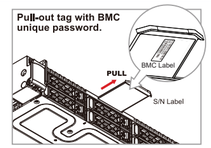
Note: Fully populate the motherboard with validated memory modules to achieve the best memory performance.

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

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.

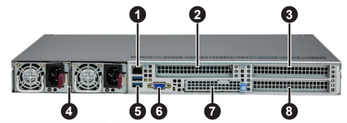
CAUTION:

This unit has redundant power sources. Please disconnect all the power cords before servicing.

PRODUCT RESOURCES:

For more information go to:
http://www.supermicro.com/support

Rear View



Item	Description
1	One RJ45 Dedicated LAN Port
2	PCIe 5.0 x16 Expansion Card Slot (Full Height, 6.6" L)
3	PCIe 5.0 x16 Expansion Card Slot (Full Height, 10.5" L)
4	Redundant Power Supplies *
5	Two USB 3.0 Ports
6	VGA Port
7	PCIe 5.0 x16 AIOM Slot
8	PCIe 5.0 x16 Expansion Card Slot (Full Height, 10.5" L)

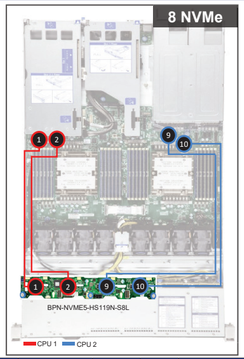
Description	
Power Supply LED Solid Green	A valid power source is connected to the PSU and the PSU is operational
Power Supply LED Blinking Green	PSU is in standby state (12VSB standby power only)
Power Supple LED Solid Green	(Scenario 1) Power source to the PSU is disconnected or invalid but a second PSU is operational (Scenario 2) PSU failure and the PSU is not operational
Power Supply LED Blinking Green	A PSU warning event occurred and the PSU is still operational

** Full power supply redundancy is based on selected power supply, system configuration, and application load.*

LBL-4035-T-QRG Rev. 1.0

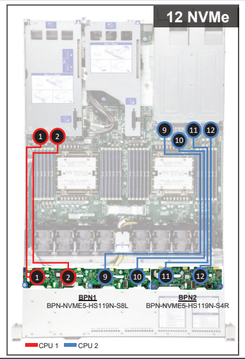
NVMe Drive Cable Routing

8 NVMe



#	Connector on Board	Backplane	Drive Bay	SMC Cable P/N
1	JMCIO1 (MBD-H14DSH)	CN1	0-1	CBL-MCIO-1463M5FLFB1-J (Bundled cable)
2	JMCIO2 (MBD-H14DSH)	CN2	2-3	
9	JMCIO7 (MBD-H14DSH)	CN3	4-5	CBL-MCIO-1347M5REL
10	JMCIO8 (MBD-H14DSH)	CN4	6-7	CBL-MCIO-1473M5FRF

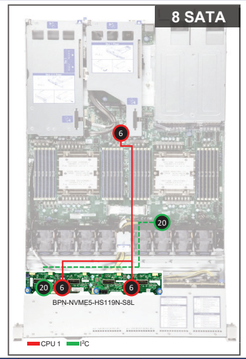
12 NVMe



#	Connector on Board	Backplane	Drive Bay	SMC Cable P/N
1	JMCIO1 (MBD-H14DSH)	BPN1 CN1	0-1	CBL-MCIO-1463M5FLFB1-J (Bundled cable)
2	JMCIO2 (MBD-H14DSH)	BPN1 CN2	2-3	
9	JMCIO7 (MBD-H14DSH)	BPN1 CN3	4-5	CBL-MCIO-1347M5REL
10	JMCIO8 (MBD-H14DSH)	BPN1 CN4	6-7	CBL-MCIO-1473M5FRF
11	JMCIO9 (MBD-H14DSH)	BPN2 CN1	8-9	CBL-MCIO-1462M5FRFB2 (Bundled cable)
12	JMCIO10 (MBD-H14DSH)	BPN2 CN2	10-11	

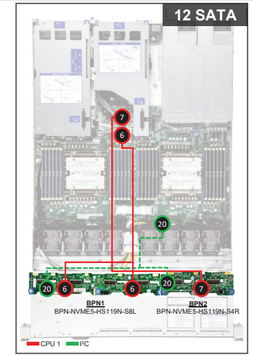
SATA Drive Cable Routing

8 SATA



#	Connector on Board	Backplane	Drive Bay	SMC Cable P/N
6	JMCIO5 (MBD-H14DSH)	JSM1 & JSM2	0-7	CBL-MCIO-1255L4Y
20	JNVI2C2 (MBD-H14DSH)	J25	0-7	CBL-CDAT-1062Y-45

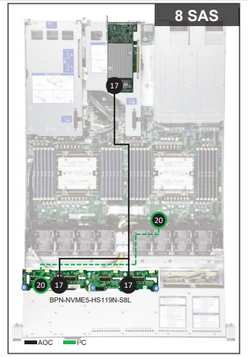
12 SATA



#	Connector on Board	Backplane	Drive Bay	SMC Cable P/N
6	JMCIO5 (MBD-H14DSH)	BPN1 JSM1 & JSM2	0-7	CBL-MCIO-1255L4Y
7	JMCIO6 (MBD-H14DSH)	BPN2 JSM1	8-11	CBL-MCIO-1255L4Y
20	JNVI2C2 (MBD-H14DSH)	J25	0-7 / 8-11	CBL-CDAT-1062Y-45

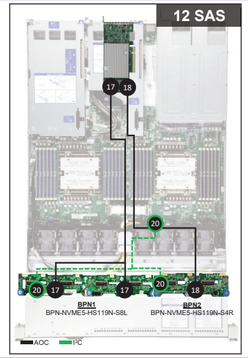
Storage AOC Drive Cable Routing

8 SAS



#	Connector on Board	Backplane	Drive Bay	SMC Cable P/N
17	SAS AOC CN1	JSM1 & JSM2	0-7	CBL-SAST-1273LP-100
20	JNVI2C2 (MBD-H14DSH)	J25	0-7	CBL-CDAT-1062Y-45

12 SAS



#	Connector on Board	Backplane	Drive Bay	SMC Cable P/N
17	SAS AOC1 CN1	BPN1 JSM1 & JSM2	0-7	CBL-SAST-1273LP-100
18	SAS AOC1 CN2	BPN2 JSM1	8-11	CBL-SAST-1262LP-100
20	JNVI2C2 (MBD-H14DSH)	BPN1 & BPN2 J25	0-7 / 8-11	CBL-CDAT-1062Y-45

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