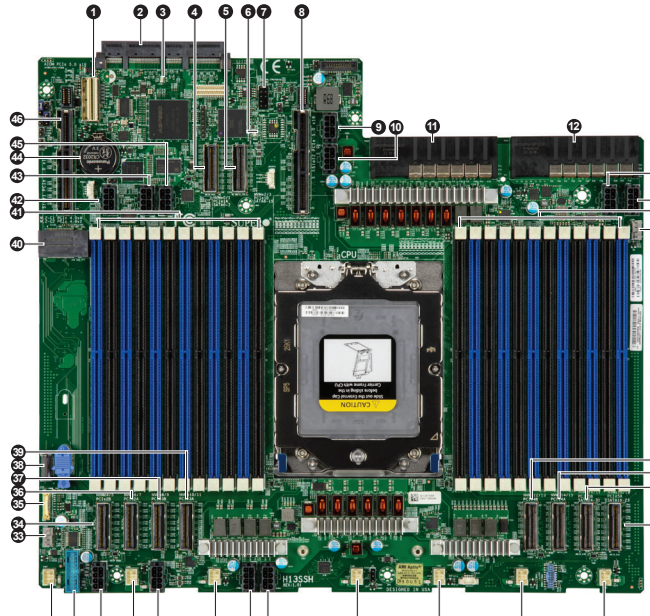


# SUPERMICR<sup>®</sup> A+ Server AS -2015HS-TNR Quick Reference Guide

## Board Layout

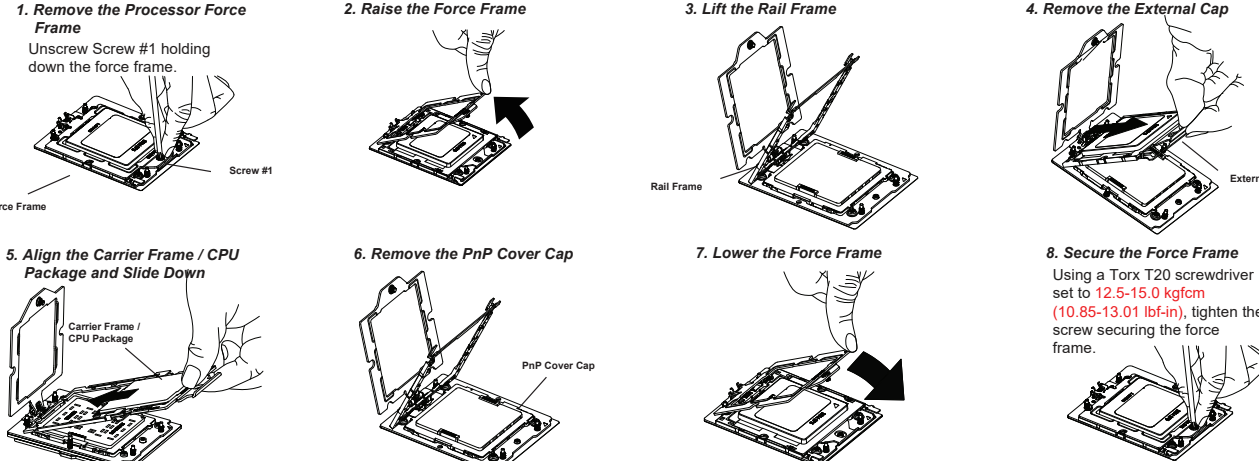


Item	Description	Item	Description
1	Front IPMI and Onboard VGS/USB/BIOS Module Connector	24	FAN4
2	Supermicro® Advanced I/O Module (AIOM PCIe 5.0x16) Slot	25	JPWR5*
3	BMC Heartbeat LED	26	JPWR5*
4	NVMe01: PCIe1A, SATA0-7	27	FAN5
5	NVMe2/3: PCIe1B, SATA8-15	28	JPWR6*
6	Power LED	29	FAN6
7	TPM / Port 80	30	JPWR7*
8	Slot 2 PCIe 5.0 x16	31	USB 3.0 Header
9	JPWR10*	32	FAN7
10	JPWR11*	33	FAN8
11	PSU2 Power Supply Connector	34	NVMe4/5: PCIe2B
12	PSU1 Power Supply Connector	35	Front Control Panel Header 2
13	JPWR9*	36	NVMe7: PCIe2A
14	JPWR4*	37	NVMe8/9: PCIe3B
15	DIMM01-L2	38	Front Control Panel Header 1
16	FAN9	39	NVMe10/11: PCIe3A
17	NVMe12/13: PCIe4B	40	M.2-C1 PCIe 3.0 x4 / M.2-C2 PCIe 3.0 x2
18	NVMe14/15: PCIe4A	41	DIMMA1-F2
19	NVMe16/17: PCIe5B, SATA24-31	42	JPWR1*
20	NVMe18/19: PCIe5A, SATA16-23	43	JPWR2*
21	FAN1	44	Onboard Battery
22	FAN2	45	JPWR3*
23	FAN3	46	Slot 1 PCIe 5.0 x16

\*12V 8-Pin Power Connector

## CPU Installation

- 1. Remove the Processor Force Frame**  
Unscrew Screw #1 holding down the force frame.
- 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 (10.85-13.01 lbf-in), tighten the screw securing the force frame.



## Memory Support

### DIMM Population Guide (1DPC)


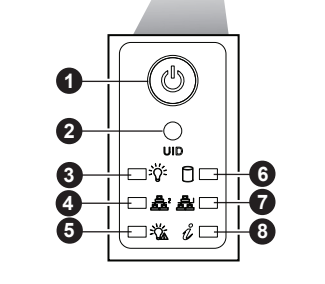
Type	Channel																							
	F2	F1	E2	E1	D2	D1	C2	C1	B2	B1	A2	A1	G1	G2	H1	H2	I1	I2	J1	J2	K1	K2	L1	L2
1 DIMM*																								
2 DIMMs*																								
4 DIMMs*																								
6 DIMMs*																								
8 DIMMs**																								
10 DIMMs**																								
12 DIMMs***	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V

### DIMM Population Guide (2DPC)

Type	Channel																							
	F2	F1	E2	E1	D2	D1	C2	C1	B2	B1	A2	A1	G1	G2	H1	H2	I1	I2	J1	J2	K1	K2	L1	L2
16 DIMMs																								
20 DIMMs																								
24 DIMMs***	V	V	V	V	V	V	V	V	V	V	V	V	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 84 Core or higher CPUs, and recommended for all other CPUs

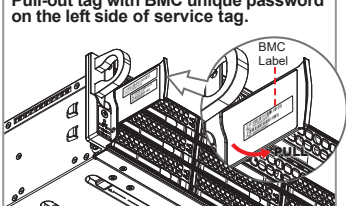
## Front View & Interface

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

## System Information

**Pull-out tag with BMC unique password on the left side of service tag.**



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	Slot	Description
1	Power Supply 1	A1	PCI-E 5.0 x16 AIOM Slot (NCSS)
2	Power Supply 2		
3	BMC LAN Port		
4	USB Ports		
5	VGA Port		

Slot	Description
1	PCI-E 5.0 x16 (FH, 10.5" L)
2	Not available
3	PCI-E 5.0 x16 (FH, 10.5" L)
4	Not available

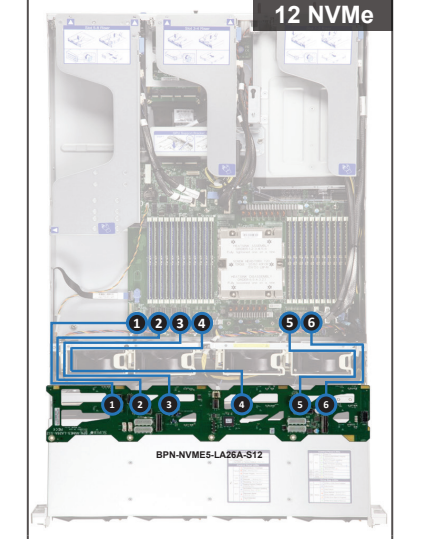
Slot	Description
6	PCI-E 5.0 x16 (FH, 10.5" L)
7	Not available
8	PCI-E 5.0 x16 (FH, 10.5" L)
9	Not available

Power Supply full redundancy based on configuration and application load

LBL-2612-T-QRG  Rev. 1.0a

## NVMe Drive Cable Routing

**12 NVMe**



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G0B (M8D-H130SH)	NVMe1	0-1	CBL-MCIO-133SMR
JMCO_G0A (M8D-H130SH)	NVMe2	2-3	CBL-MCIO-126MS
JMCO_G1B (M8D-H130SH)	NVMe3	4-5	CBL-MCIO-124MS-Z
JMCO_G1A (M8D-H130SH)	NVMe4	6-7	CBL-MCIO-126MS
JMCO_G2B (M8D-H130SH)	NVMe5	8-9	CBL-MCIO-122MS
JMCO_G0B (M8D-H130SH)	NVMe6	10-11	CBL-MCIO-122MS

## SATA Drive Cable Routing

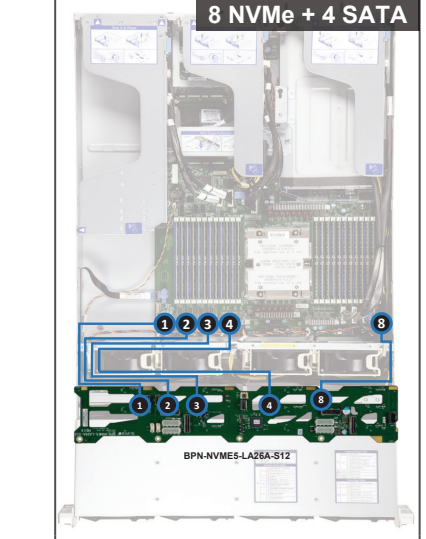
**12 SATA**



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G3A (M8D-H130SH)	CN1/CN2	0-7	CBL-MCIO-1243S4Y
JMCO_G3B (M8D-H130SH)	CN3	8-11	CBL-MCIO-1227G0S4

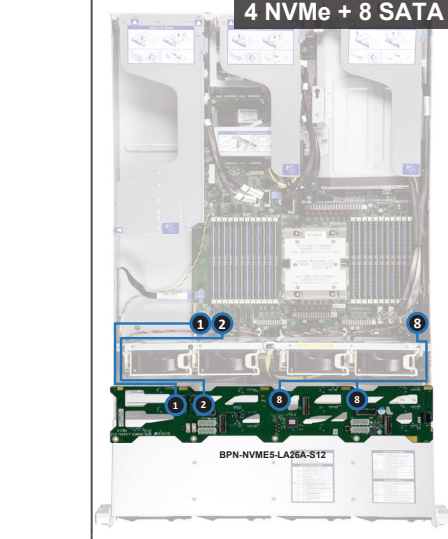
## NVMe/SATA Hybrid Drive Cable Routing

**8 NVMe + 4 SATA**



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G0B (M8D-H130SH)	NVMe1	0-1	CBL-MCIO-133SMR
JMCO_G0A (M8D-H130SH)	NVMe2	2-3	CBL-MCIO-124MS
JMCO_G1B (M8D-H130SH)	NVMe3	4-5	CBL-MCIO-124MS-Z
JMCO_G1A (M8D-H130SH)	NVMe4	6-7	CBL-MCIO-126MS
JMCO_G3A (M8D-H130SH)	CN2 / CN3	8-9	CBL-MCIO-1227G0S4

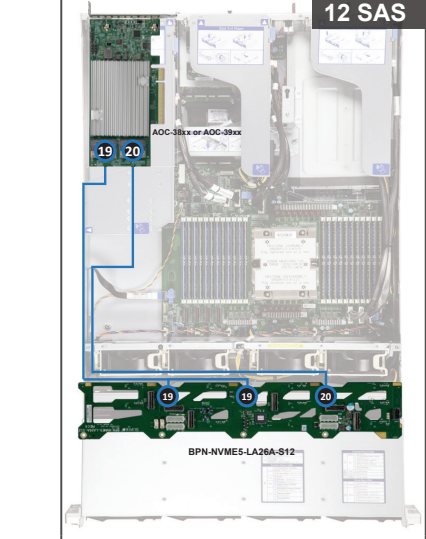
**4 NVMe + 8 SATA**



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G0B (M8D-H130SH)	NVMe1	0-1	CBL-MCIO-133SMR
JMCO_G0A (M8D-H130SH)	NVMe2	2-3	CBL-MCIO-124MS
JMCO_G3A (M8D-H130SH)	CN2 / CN3	4-11	CBL-MCIO-1243S4Y

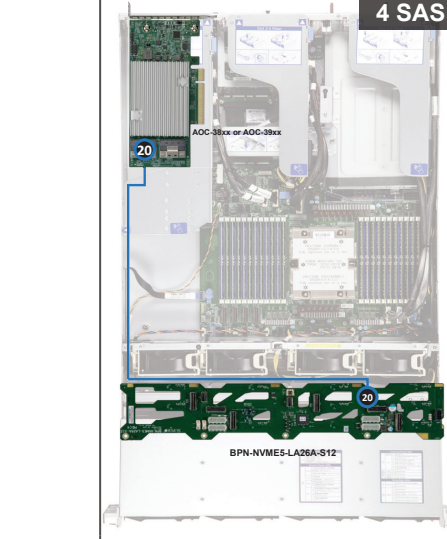
## Storage AOC Drive Cable Routing

**12 SAS**




Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	CN1 / CN2	0-7	CBL-SAST-1276F-100
SAS AOC CN2	CN3	8-11	CBL-SAST-1201F-100

**4 SAS**



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	CN3	8-11	CBL-SAST-1201F-100

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