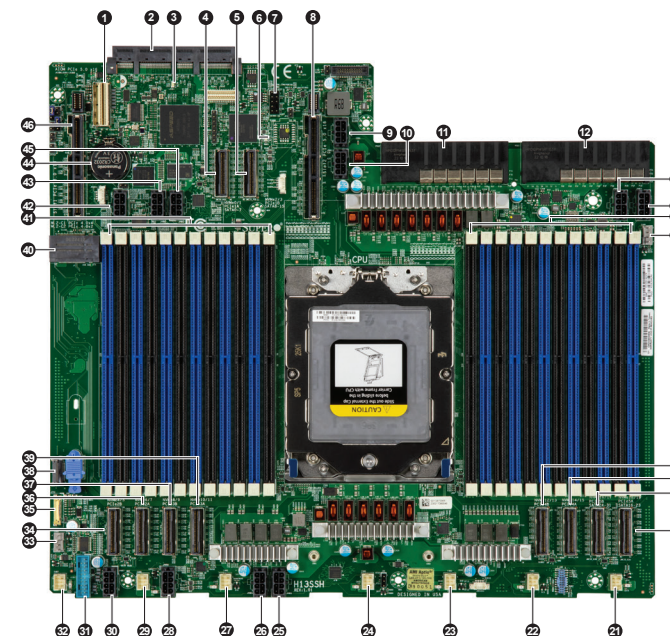


SUPERMICR[®] A+ Server AS -115HS-TNR Quick Reference Guide

Board Layout



Item	Description	Item	Description
1	Front IPMI and Onboard VGS/USB/NIC Module Connector	24	FAN4
2	Supermicro® Advanced I/O Module (AIOM PCIe 5.0x16) Slot	25	JPWR8*
3	BMC Heartbeat LED	26	JPWR5*
4	NVMe01: PCIe1A, SATA0-7	27	FAN5
5	NVMe23: PCIe1B, SATA8-15	28	JPWR8*
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	NVMe45: PCIe2B
12	PSU1 Power Supply Connector	35	Front Control Panel Header 2
13	JPWR3*	36	NVMe67: PCIe2A
14	JPWR4*	37	NVMe89: PCIe3B
15	DIMM01-L2	38	Front Control Panel Header 1
16	FAN9	39	NVMe1011: PCIe3A
17	NVMe1213: PCIe4B	40	M.2-C1 PCIe 3.0 x4 / M.2-C2 PCIe 3.0 x2
18	NVMe1415: PCIe4A	41	DIMM1-F2
19	NVMe1617: PCIe5B, SATA24-31	42	JPWR1*
20	NVMe1819: 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

- 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

DIMM Population Guide (1DPC)

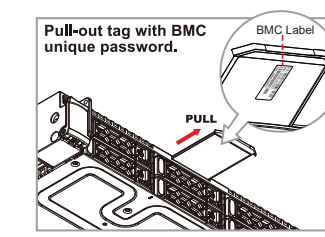
Type	Channel																											
	F2	F1	E2	E1	D2	D1	C2	C1	B2	B1	A2	A1	CPU				G1	G2	H1	H2	I1	I2	J1	J2	K1	K2	L1	L2
1 DIMM*																												
2 DIMMs*																												
4 DIMMs*																												
6 DIMMs*																												
8 DIMMs**																								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

DIMM Population Guide (2DPC)

Type	Channel																											
	F2	F1	E2	E1	D2	D1	C2	C1	B2	B1	A2	A1	CPU				G1	G2	H1	H2	I1	I2	J1	J2	K1	K2	L1	L2
16 DIMMs																												
20 DIMMs																												
24 DIMMs***																												

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

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

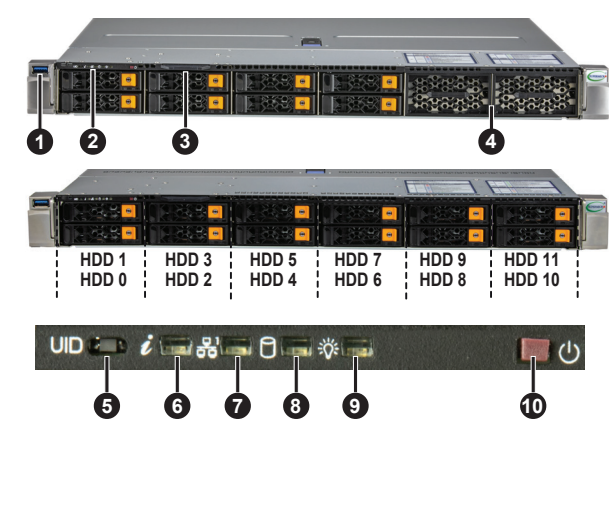
SAFETY INFORMATION:
 IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

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.

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.

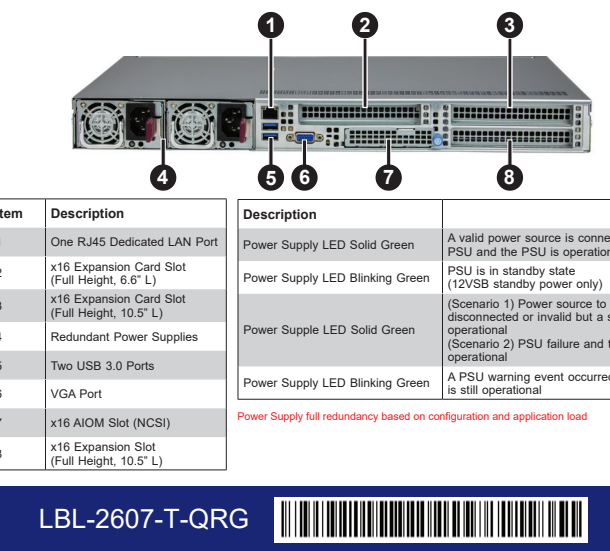
PRODUCT RESOURCES:
 For more information go to: <http://www.supermicro.com/support>

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

Rear View



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

Description

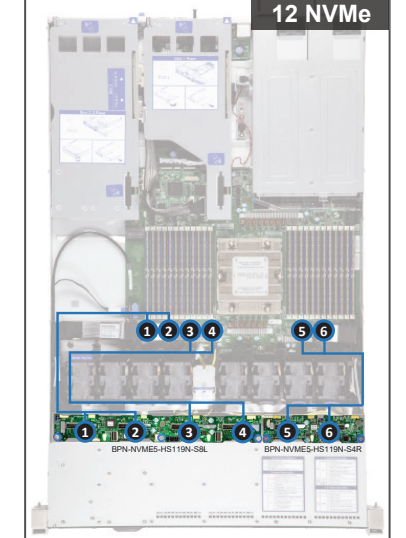
- Power Supply LED Solid Green: A valid power source is connected to the PSU and the PSU is operational
- Power Supply LED Blinking Green: PSU is in standby state (12VSB standby power only)
- Power Supply LED Solid Green: (Scenario 1) Power source to the PSU is disconnected or invalid but a second PSU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

Power Supply full redundancy based on configuration and application load

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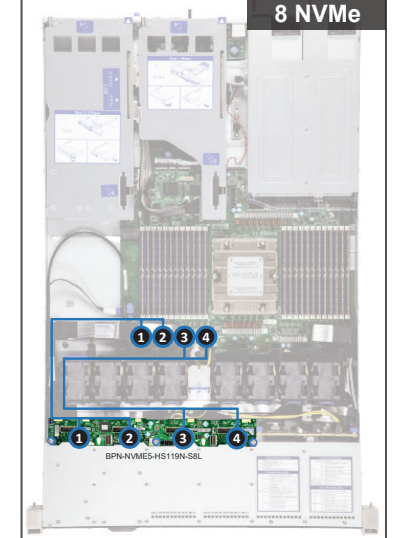
NVMe Drive Cable Routing

12 NVMe



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G0B (MBD-H135SH)	CN1 (BPN-NVME-HS119N-S8L)	0-1	CBL-MCIO-1345MFLFB (bundled cable)
JMCO_G0A (MBD-H135SH)	CN2 (BPN-NVME-HS119N-S8L)	2-3	
JMCO_G1B (MBD-H135SH)	CN3 (BPN-NVME-HS119N-S8L)	4-5	CBL-MCIO-1361MFLFB (bundled cable)
JMCO_G1A (MBD-H135SH)	CN4 (BPN-NVME-HS119N-S8L)	6-7	
JMCO_G2B (MBD-H135SH)	CN1 (BPN-NVME-HS119N-S4R)	8-9	CBL-MCIO-1342MFRFB (bundled cable)
JMCO_G2A (MBD-H135SH)	CN2 (BPN-NVME-HS119N-S4R)	10-11	

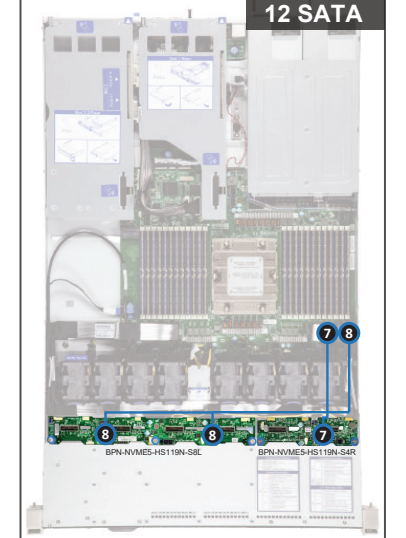
8 NVMe



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G0B (MBD-H135SH)	CN1 (BPN-NVME-HS119N-S8L)	0-1	CBL-MCIO-1345MFLFB (bundled cable)
JMCO_G0A (MBD-H135SH)	CN2 (BPN-NVME-HS119N-S8L)	2-3	
JMCO_G1B (MBD-H135SH)	CN3 (BPN-NVME-HS119N-S8L)	4-5	CBL-MCIO-1361MFLFB (bundled cable)
JMCO_G1A (MBD-H135SH)	CN4 (BPN-NVME-HS119N-S8L)	6-7	

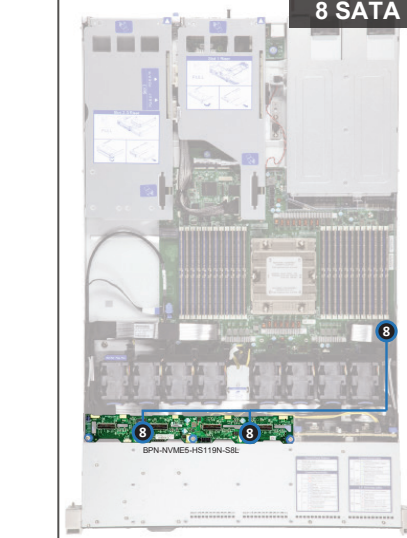
SATA Drive Cable Routing

12 SATA



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G3A (MBD-H135SH)	JSM1JSM2 (BPN-NVME-HS119N-S8L)	0-7	CBL-MCIO-1360L4FY
JMCO_G3B (MBD-H135SH)	JSM1 (BPN-NVME-HS119N-S4R)	8-11	CBL-MCIO-1328L4FL

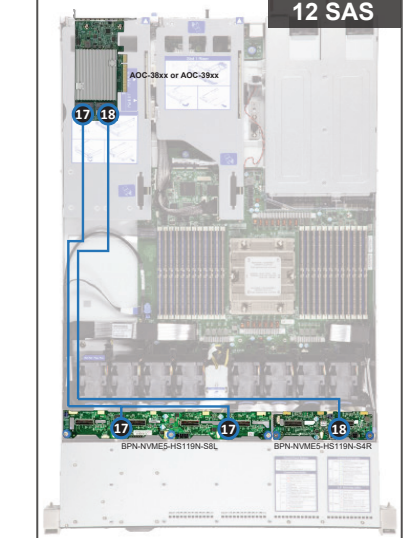
8 SATA



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCO_G3A (MBD-H135SH)	JSM1JSM2 (BPN-NVME-HS119N-S8L)	0-7	CBL-MCIO-1360L4FY

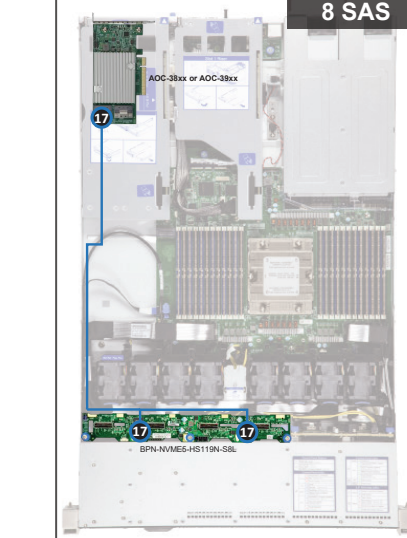
Storage AOC Drive Cable Routing

12 SAS



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	JSM1JSM2 (BPN-NVME-HS119N-S8L)	0-7	CBL-SAST-1273LP-100
SAS AOC CN2	JSM1 (BPN-NVME-HS119N-S4R)	8-11	CBL-SAST-1262LP-100

8 SAS



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	JSM1JSM2 (BPN-NVME-HS119N-S8L)	0-7	CBL-SAST-1273LP-100

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