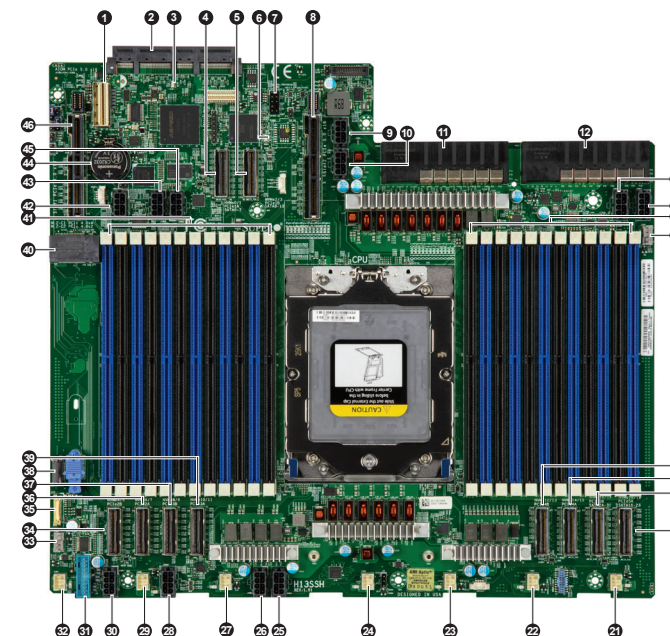


SUPERMICR[®] A+ Server AS -2115HS-TNR Quick Reference Guide

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	27	FAN5
4	NVMe01: PCIe1A, SATA0-7	28	JPWR8*
5	NVMe23: PCIe1B, SATA8-15	29	FAN6
6	Power LED	30	JPWR7*
7	TPM / Port 80	31	USB 3.0 Header
8	Slot 2 PCIe 5.0 x16	32	FAN7
9	JPWR10*	33	FAN8
10	JPWR11*	34	NVMe45: PCIe2B
11	PSU2 Power Supply Connector	35	Front Control Panel Header 2
12	PSU1 Power Supply Connector	36	NVMe67: PCIe2A
13	JPWR3*	37	NVMe89: PCIe3B
14	JPWR4*	38	Front Control Panel Header 1
15	DIMM01-L2	39	NVMe1011: PCIe3A
16	FAN9	40	M.2-C1 PCIe 3.0 x4 / M.2-C2 PCIe 3.0 x2
17	NVMe1213: PCIe4B	41	DIMM1-F2
18	NVMe1415: PCIe4A	42	JPWR1*
19	NVMe1617: PCIe5B, SATA24-31	43	JPWR2*
20	NVMe1819: PCIe5A, SATA16-23	44	Onboard Battery
21	FAN1	45	JPWR3*
22	FAN2	46	Slot 1 PCIe 5.0 x16
23	FAN3		

*12V 8-Pin Power Connector

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***																									

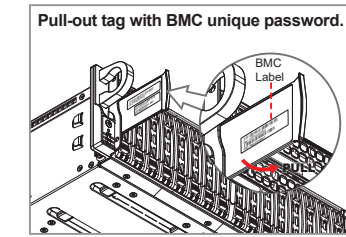
DIMM Population Guide (2DPC)

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***																									

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

Pull-out tag with BMC unique password.



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.

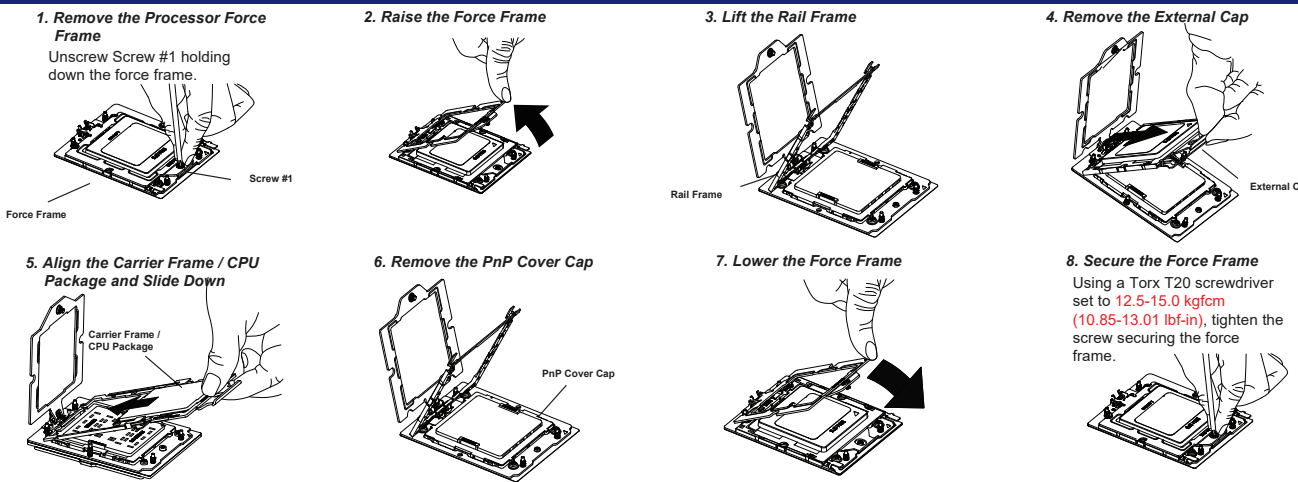
WARNING:
 To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets. If any CPU socket empty, install protective plastic CPU cap.

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

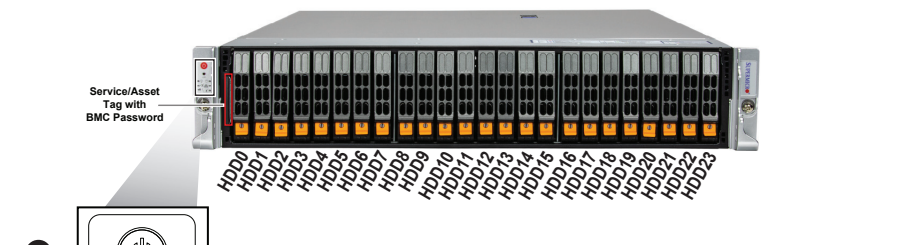


CPU Installation

- 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.

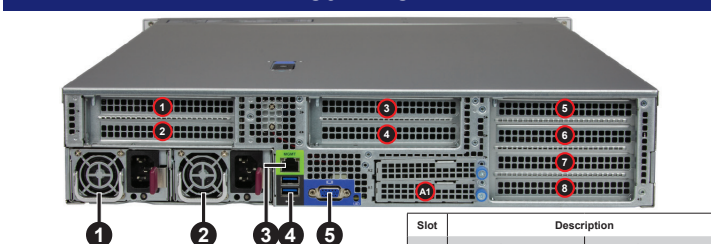


Front View & Interface



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

Rear View



Item	Description	Slot	Description
1	Power Supply 1	1	PCI-E 5.0 x16 (FH, 10.5" L)
2	Power Supply 2	2	Not available
3	BMC LAN Port	3	PCI-E 5.0 x8 (FH, 10.5" L)
4	USB Ports	4	Not available
5	VGA Port	5	PCI-E 5.0 x8 (FH, 10.5" L)

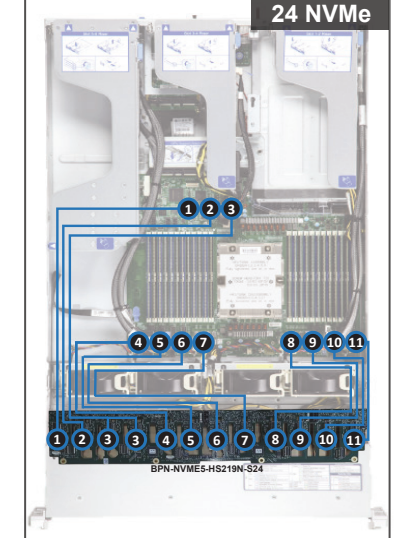
Slot	Description	Option 1	Option 2	Option 3
6	PCI-E 5.0 x16 (FH, 10.5" L)	PCI-E 5.0 x16 (FH, 10.5" L)	PCI-E 5.0 x16 (FH, 10.5" L)	PCI-E 5.0 x8 (FH, 10.5" L)
7	Not available	Not available	Not available	PCI-E 5.0 x8 (FH, 10.5" L)
8	PCI-E 5.0 x8 (FH, 10.5" L)	PCI-E 5.0 x16 (FH, 10.5" L)	PCI-E 5.0 x16 (FH, 10.5" L)	PCI-E 5.0 x8 (FH, 10.5" L)
9	PCI-E 5.0 x8 (FH, 10.5" L)	Not available	Not available	PCI-E 5.0 x8 (FH, 10.5" L)

* Slots 1, 2, 3, 4, 5, 6 are not available with 24 NVMe Configuration
 Power Supply full redundancy based on configuration and application load

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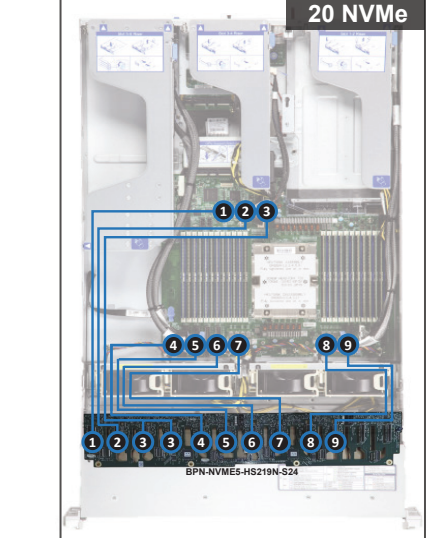
NVMe Drive Cable Routing

24 NVMe



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCI0_P0A (MBD-H135SH)	NVMe 0-1	0-1	CBL-MCIO-1250M5-Z
JMCI0_P0B (MBD-H135SH)	NVMe 2-3	2-3	CBL-MCIO-1250M5-Z
Slot2 PCIe 5.0 x16 (MBD-H135SH)	NVMe 4-7	4-7	CBL-GNZ4-1260M5-Y-X
JMCI0_G0B (MBD-H135SH)	NVMe 8-9	8-9	CBL-MCIO-1340M9R
JMCI0_G0A (MBD-H135SH)	NVMe 10-11	10-11	CBL-MCIO-1240M5-Z
JMCI0_G1B (MBD-H135SH)	NVMe 12-13	12-13	CBL-MCIO-1250M5-Z
JMCI0_G1A (MBD-H135SH)	NVMe 14-15	14-15	CBL-MCIO-1260M5
JMCI0_G2B (MBD-H135SH)	NVMe 16-17	16-17	CBL-MCIO-1330M5
JMCI0_G2A (MBD-H135SH)	NVMe 18-19	18-19	CBL-MCIO-1320M5
JMCI0_G3B (MBD-H135SH)	NVMe 20-21	20-21	CBL-MCIO-1221M5
JMCI0_G3A (MBD-H135SH)	NVMe 22-23	22-23	CBL-MCIO-1210M5-1

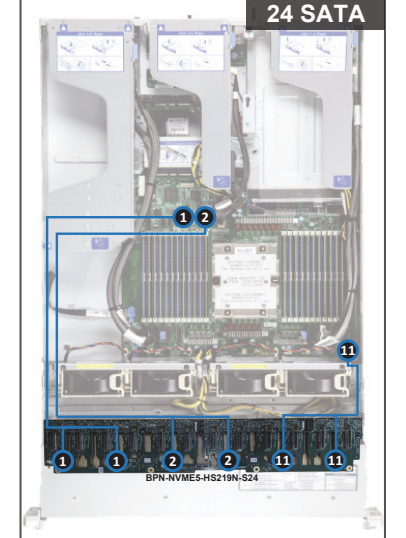
20 NVMe



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCI0_P0A (MBD-H135SH)	NVMe 0-1	0-1	CBL-MCIO-1250M5-Z
JMCI0_P0B (MBD-H135SH)	NVMe 2-3	2-3	CBL-MCIO-1250M5
Slot2 PCIe 5.0 x16 (MBD-H135SH)	NVMe 4-7	4-7	CBL-GNZ4-1260M5-Y-X
JMCI0_G0B (MBD-H135SH)	NVMe 8-9	8-9	CBL-MCIO-1340M9R
JMCI0_G0A (MBD-H135SH)	NVMe 10-11	10-11	CBL-MCIO-1240M5-Z
JMCI0_G1B (MBD-H135SH)	NVMe 12-13	12-13	CBL-MCIO-1250M5-Z
JMCI0_G1A (MBD-H135SH)	NVMe 14-15	14-15	CBL-MCIO-1260M5
JMCI0_G2B (MBD-H135SH)	NVMe 16-17	16-17	CBL-MCIO-1330M5
JMCI0_G2A (MBD-H135SH)	NVMe 18-19	18-19	CBL-MCIO-1320M5

SATA Drive Cable Routing

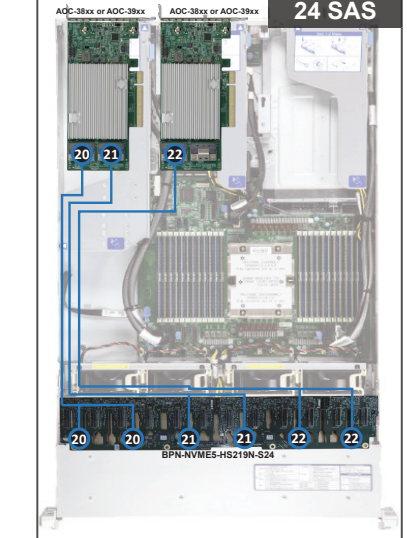
24 SATA



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
JMCI0_P0A (MBD-H135SH)	SAS 0-3 / 4-7	0-7	CBL-MCIO-1250S4Y
JMCI0_P0B (MBD-H135SH)	SAS 8-11 / 12-15	8-15	CBL-MCIO-1275S4Y
JMCI0_G3A (MBD-H135SH)	SAS 16-19 / 20-23	16-23	CBL-MCIO-1223S4Y

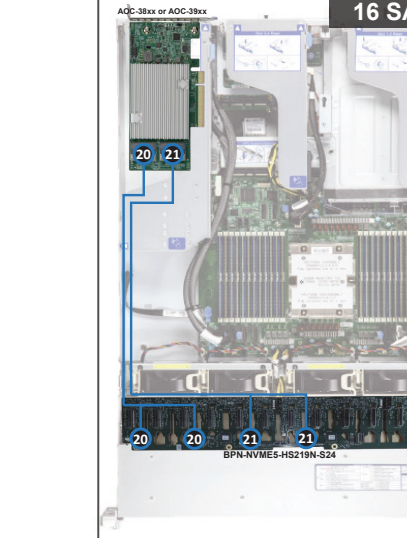
Storage AOC Drive Cable Routing

24 SAS



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC1 CN1	SAS 0-3 / 4-7	0-7	CBL-SAST-1264F-100
SAS AOC1 CN2	SAS 8-11 / 12-15	8-15	CBL-SAST-1276F-100
SAS AOC2 CN1	SAS 16-19 / 20-23	16-23	CBL-SAST-1296F-100

16 SAS



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	SAS 0-3 / 4-7	0-7	CBL-SAST-1264F-100
SAS AOC CN2	SAS 8-11 / 12-15	8-15	CBL-SAST-1276F-100

4 SAS



Connector on Board/Card	Backplane/Riser and Port	Drive Bay	SMC Cable P/N
SAS AOC CN1	SAS 20-23	20-23	CBL-SAST-1296F-100

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