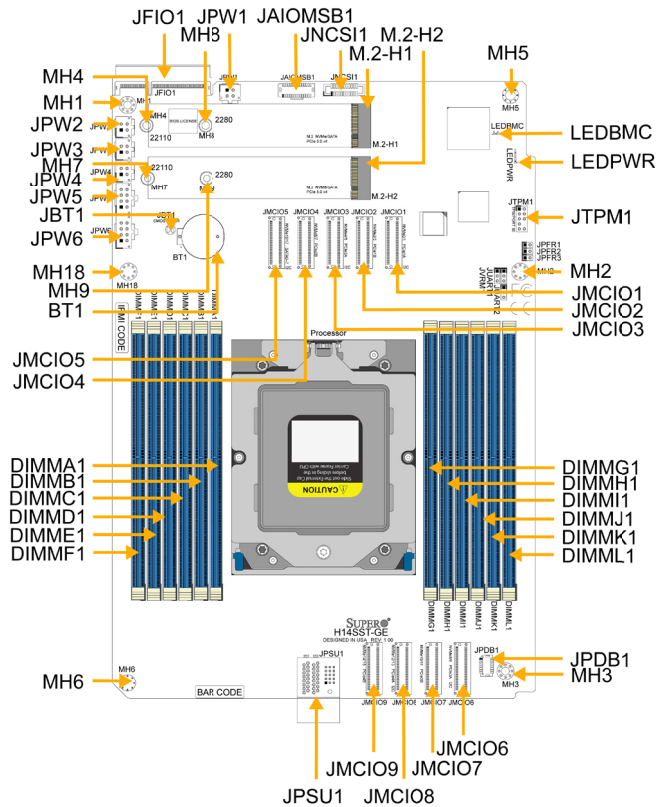


SUPERMICR® GrandTwin A+ Server® AS-2116GT-DTNF Quick Reference Guide

MNL-2875-QRG-100

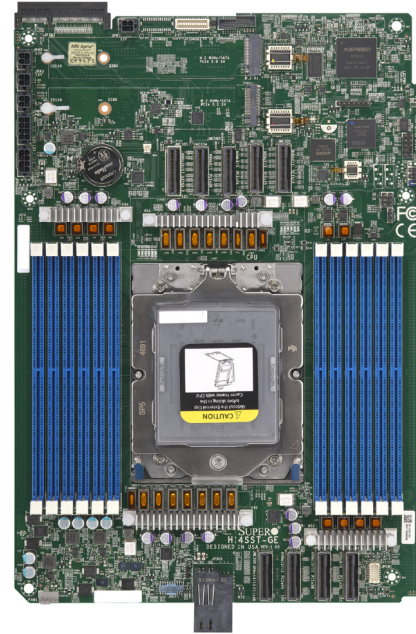
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Board Layout



Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
LED	Description	Status
LEDBMC	BMC Heartbeat LED	Green Blinking: BMC Normal Green Blinking Fast: BMC Initializing
LEDPWR	Power LED	Solid Green: Power On
Connector	Description	
BT1	Onboard Battery	
JAIOMSB1	Sideband Signal Header	
JFIO1	Grand Twin Front IPMI and Onboard NIC Module Connector	
JMCIO1-JMCIO4, JMCIO6-JMCIO9	MCIO PCIe 5.0 x8 Connectors	
JMCIO5	MCIO PCIe 5.0/SATA3 x8 Connector	
JNCSI1	NC-SI Connector	
JPDB1	Sideband Connector to GPU PDB	
JPSU1	Power Supply Module Connector	
JPW5	8-pin +12 V/+5 V Power Connector for SATA Backplane	
JPW2-JPW4	4-pin +12 V Power Connectors for NVMe Backplane and Internal PCIe Riser Card	
JTPM1	Trusted Platform Module/Port 80 Connector	
M.2-H1, M.2-H2	M.2 NVMe or SATA SSDs	

Memory



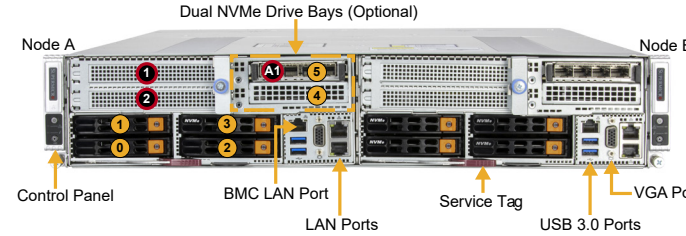
- ### DIMM Module Population
- It is recommended to use DDR5 memory of the same type, size and speed.
 - Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
 - The motherboard will support odd-numbered modules. However, to achieve the best memory performance, fully populate the motherboard with validated memory modules.

Follow the tables below when installing memory modules.

Populating RDIMM/3DS RDIMM DDR5 Memory Modules with AMD EPYC™ 9005-Series Processors				
Type	DIMM Population	Maximum Frequency (MT/s)		
		6400 MT/s Grade DIMM	5600 MT/s Grade DIMM	4800 MT/s Grade DIMM
RDIMM	1R (1 rank)	6400	5600	4800
	2R (2 rank)			
3DS RDIMM	2S2R (4 ranks)	6400	5600	4800
	2S4R (8 ranks)			

Channel	DIMM Slot											
	F1	E1	D1	C1	B1	A1	G1	H1	I1	J1	K1	L1
1 DIMM						✓						
2 DIMMs						✓	✓					
4 DIMMs				✓	✓	✓	✓	✓	✓			
6 DIMMs			✓	✓	✓	✓	✓	✓	✓	✓		
8 DIMMs		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10 DIMMs		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12 DIMMs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Front View



Feature	Description
Control Panel	One control panel per node
BMC LAN Port	One dedicated BMC LAN port per node
USB 3.0 Ports	Two USB 3.0 ports per node
VGA Port	One VGA port per node
LAN Ports	Two LAN ports per node Networking options: 1. Two RJ45 10 GbE LAN ports 2. Two SFP28 25 GbE LAN ports 3. QSFP56 200 GbE LAN port
Service Tag	One pull-out service tag with BMC password label per node
Drive Bays	Up to six hot-swappable 2.5" drive bays per node (optional) Note: Drive bays indicated by yellow circles labelled 0-5 in the figure above
PCIe Slots	Up to two PCIe 5.0 x16 FHHL slots (red circle icon 1 and 2 shown above) or one PCIe 5.0 x16 FH/10.5L slot per node (red circle icon 1) (optional) Note: PCIe slots indicated by red and black circles labelled 1-2 in the figure
AIOM Slot	One PCIe 5.0 x16 OCP 3.0 card per node (optional) Note: AIOM slot indicated by the red and black circle labelled A1 in the figure

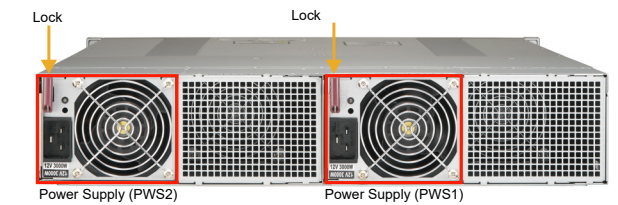
Note: Storage drive, PCIe cards, and AIOM card functionality depends on configuration chosen. Additional parts are required.

Note: When removing a node tray, you must use a dummy cover. Otherwise, you must complete the node replacement within one minute of removing the tray from the chassis.

Control Panel

Color, Status	Description
Solid red	An overheat condition has occurred.
Blinking red (1 Hz)	Fan failure. Check for an inoperative fan.
Blinking red (0.25 Hz)	Power failure. Check for a non-operational power supply.
Solid blue	UID has been activated locally to locate the server in a rack environment.
Blinking blue (1 Hz)	UID has been activated remotely to locate the server in a rack environment.
Blinking blue (2 Hz)	BMC resetting
Blinking blue (4 Hz)	Setting BMC factory default
Solid red with power LED blinking green	RoT fault detected
Blinking blue (10 Hz) with power LED blinking green	RoT BIOS/BMC firmware updating
Blinking blue and red (10 Hz)	RoT recovery mode

Rear View



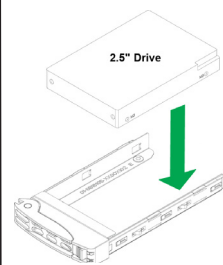
Feature	Description
Power Supply	Two 2200 W Titanium Level (96%) power supply modules Note: Power supply full redundancy based on configuration and application load

CPU Installation

- 1. Remove the Processor Force Frame**
Remove the screw holding down the force frame. The spring-loaded force frame will raise up. Allow it to lift up to its stopped position.
- 2. Raise the Force Frame**
- 3. Lifting the Rail Frame**
- 4. Remove the External Cap**
- 5. Insert the Carrier Frame/Processor**
- 6. Lower the Force Frame**
- 7. Secure the Force Frame**
Use a T20 bit torque driver, set at 12.5-15.0 kgf-cm (10.8-13.0 in-lbf) to prevent damage to the processor. Replace and tighten the screws in the same order they were removed.

Hard Drive Installation

- ### Removing a Hot-Swap Drive Carrier from the Chassis
- Press the release button on the drive carrier, which will extend the drive carrier handle
 - Use the drive carrier handle to pull the drive out of the chassis.



- ### Installing a Drive
- Insert the drive carrier with the disk drive into its bay, keeping the carrier oriented so that the release button is on the right side. Push down until the drive carrier clicks in place. When the carrier reaches the rear of the bay, the release handle retracts.
 - Push the handle in until it clicks into its locked position.

Heatsink Installation

- 1. Mount the Heatsink**
- 2. Securing the Heatsink**
Using a diagonal pattern and a Torx T20 driver, tighten the four heatsink screws evenly to 12.5-15.0 kgf-cm (10.8-13.0 lbf-in) torque.

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 another on the chassis service tag. If necessary, the password can be reset. For more information, please visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>

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

⚠ WARNING
To reduce risk of electrical shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets.
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>

