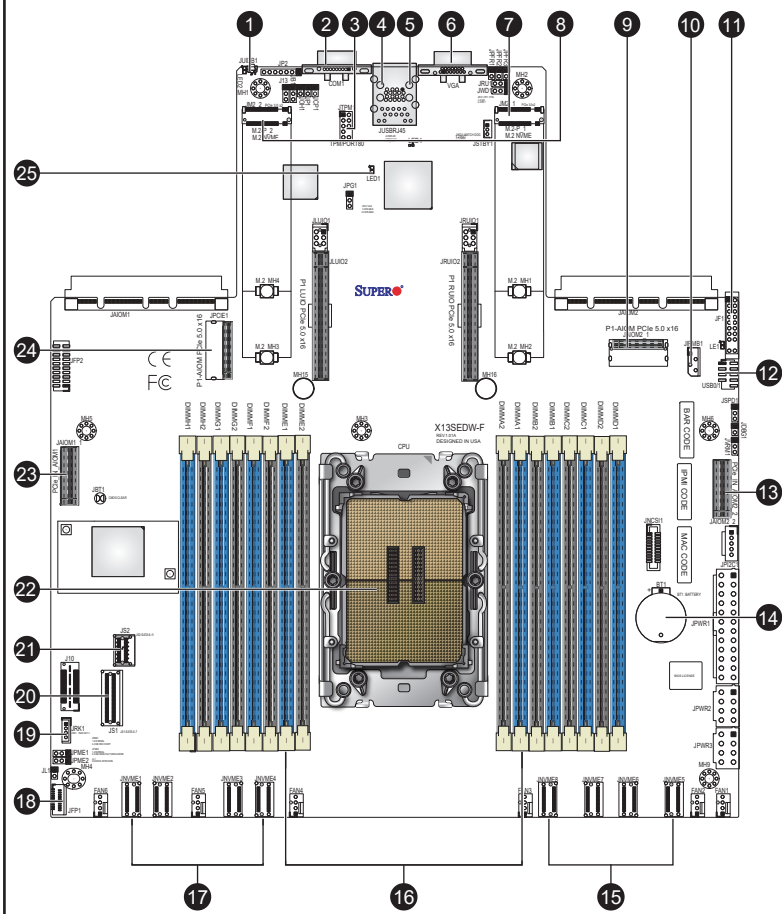


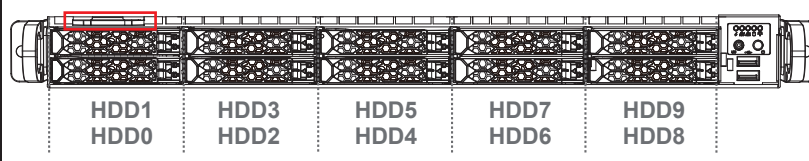
SUPERMICR[®] SuperServer 111C-NR Quick Reference Guide

Board Layout



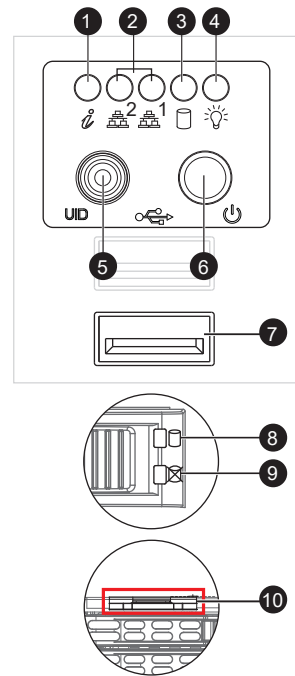
No.	Description
1	UID Button (Unit Identifier Button)
2	COM Port (Serial Port)
3	TPM Header
4	USB 3.2 Gen 1 Ports
5	Dedicated LAN for IPMI
6	VGA Port
7	M.2 PCI-E 3.0 Interface
8	M.2 PCI-E 3.0 Interface
9	JA1OM2_1 PCIe 5.0 x8 Upgrade MCIO Connector
10	JIPMB1 4-pin BMC External I2C Header
11	Front Control Panel Header (for SYS-111C-NR)
12	USB 2.0 Ports
13	JA1OM2_2 PCIe 5.0 x8 Upgrade MCIO Connector
14	Onboard CMOS Battery
15	NVME 5-8: PCIe 5.0 x4 MCIO Connectors
16	DIMM A1-H2 slots
17	NVME 1-4: PCIe 5.0 x4 MCIO Connectors
18	Front Control Panel Header (for SYS-521C-NR)
19	Intel RAID Key Header
20	SATA 0-7: SlimSAS LP SATA 3.0 Ports
21	SATA 8-11: SlimSAS LP SATA 3.0 Ports
22	CPU
23	JA1OM1_1 PCIe 5.0 x8 Upgrade MCIO Connector
24	JPCI1 PCIe 5.0 x8 MCIO Connector
25	Onboard Power LED

Front View and Features



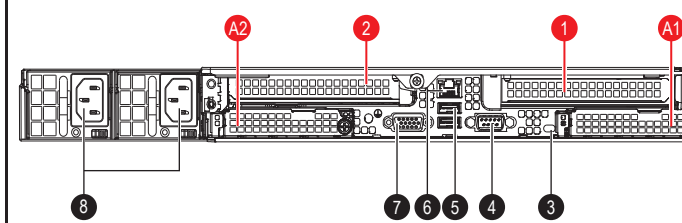
Slot	Description
0-9	2.5" hot-swap SAS3*/SATA/NVMe** drive bays

* SAS3 support requires additional parts; see optional parts list
 ** NVMe support requires additional parts; see optional parts list



No.	Description
1	Universal Information LED
2	LAN1 LED & LAN2 LED
3	Device Activity LED
4	Power LED
5	UID Button
6	Power Button
7	USB 2.0
8	Device Activity LED
9	Device Status LED
10	Service/Asset Tag, Pull-out identifier (with BMC ADMIN default password underneath)

Rear View and Features

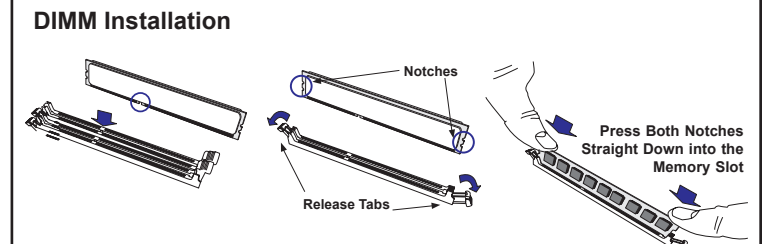


No.	Description
1	PCIe 5.0 x16 slot: full-height, 6.6" length
2	PCIe 5.0 x16 slot: full-height, 6.6" length
A1	PCIe 5.0 x8 or x16 AIOM
A2	PCIe 5.0 x0 or x16 AIOM
3	UID LED/BMC Reset
4	COM Port
5	USB Ports
6	Dedicated IPMI LAN Port
7	VGA Port
8	Power Supplies

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.
- CAUTION:** This unit has redundant power sources. Please disconnect all the power cords before servicing.

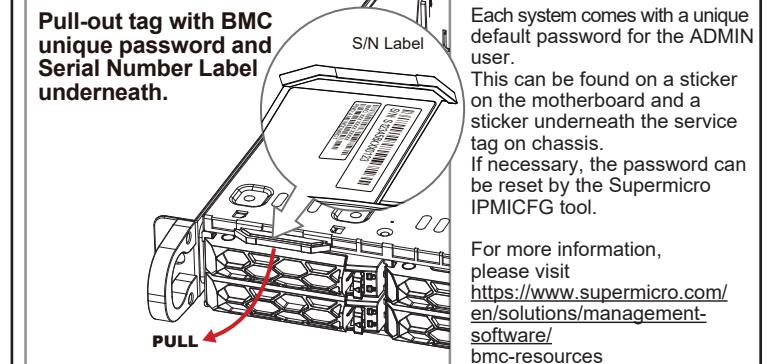
Memory



When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1 / DIMMG1 / DIMMC1 / DIMME1 / DIMMD1 / DIMMF1 / DIMMB1 / DIMMH1 / DIMMA2 / DIMMG2 / DIMMC2 / DIMME2 / DIMMD2 / DIMMF2 / DIMMB2 / DIMMH2.
 • Always use DDR5 DIMM modules 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.

1 CPU, 16-DIMM Slots	
Number of DIMMs	Memory Population Sequence
2	DIMMA1 / DIMMG1
4	DIMMA1 / DIMMG1 / DIMMC1 / DIMME1
8	DIMMA1 / DIMMG1 / DIMMC1 / DIMME1 / DIMMD1 / DIMMF1 / DIMMB1 / DIMMH1
16	DIMMA1 / DIMMG1 / DIMMC1 / DIMME1 / DIMMD1 / DIMMF1 / DIMMB1 / DIMMH1 / DIMMA2 / DIMMG2 / DIMMC2 / DIMME2 / DIMMD2 / DIMMF2 / DIMMB2 / DIMMH2

BMC Password Label

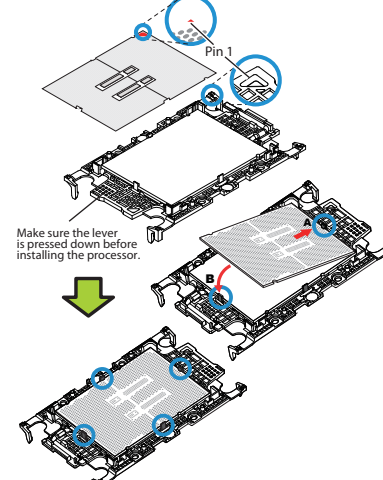


Each system comes with a unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker underneath the service tag on chassis. If necessary, the password can be reset by the Supermicro IPMICFG tool. For more information, please visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>

CPU Installation, Supports a single Intel Xeon Sapphire Rapids Scalable Processor (LGA 4677)

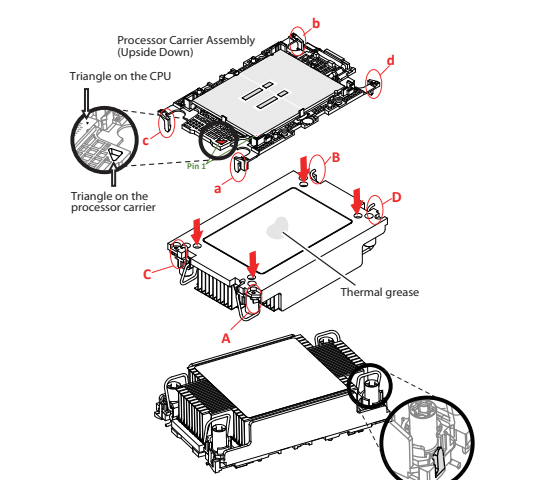
A. Creating the Intel Sapphire Rapids CPU Carrier Assembly

1. Locate small gold triangle (Pin 1) on processor and corresponding hollowed triangle on carrier.
2. Using the triangles as a guide, carefully align and place Point A of the processor into the carrier. Gently snap into place to fasten onto Point B.



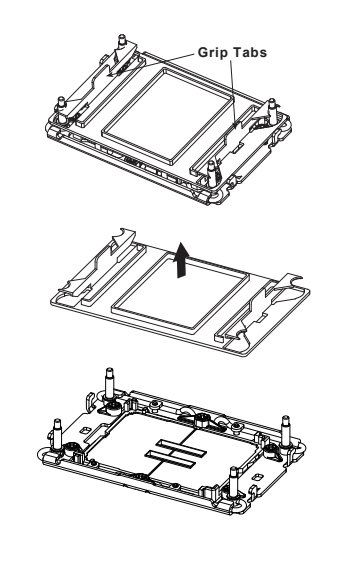
B. Assembling the Processor Heatsink Module (PHM)

1. If this is a new heatsink, the thermal grease has been preapplied. Otherwise, apply the proper amount of thermal grease.
2. Hold the processor carrier assembly so the processor's gold contacts are facing up, then align the holes of the processor carrier assembly with the holes on the heatsink. Press the processor carrier assembly down until it snaps into place. The plastic clips of the processor carrier assembly will lock at the four corners.
3. Examine all corners to ensure that the plastic clips on the processor carrier assembly are firmly attached to the heatsink.



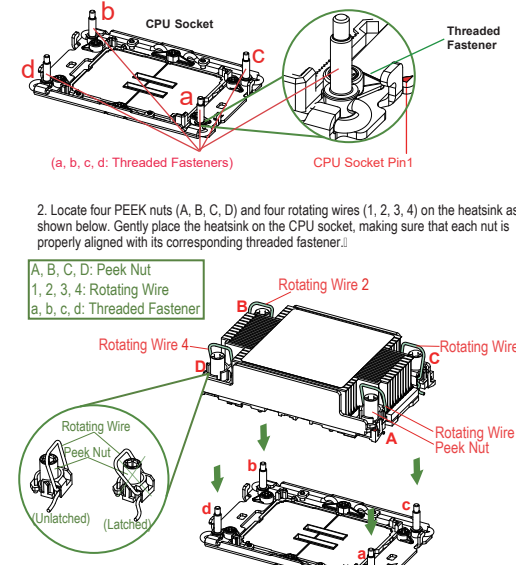
C. Preparing the CPU Socket for Installation

1. Gently pull off the plastic protective cover by one corner to remove it from the CPU socket.



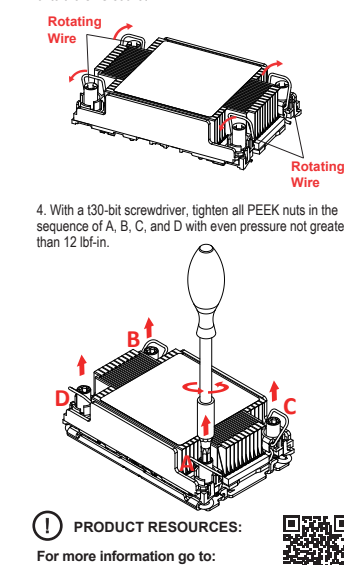
D. Installing the Process Heatsink Module

1. Locate four threaded fasteners (a, b, c, d) on the CPU socket.



E. Tightening the Heatsink Module

3. Press all four rotating wires outward to latch the PHM onto the CPU socket.
4. With a 130-bit screwdriver, tighten all PEEK nuts in the sequence of A, B, C, and D with even pressure not greater than 12 lbf-in.



Check each corner to ensure that the processor carrier is firmly attached to the heatsink.

