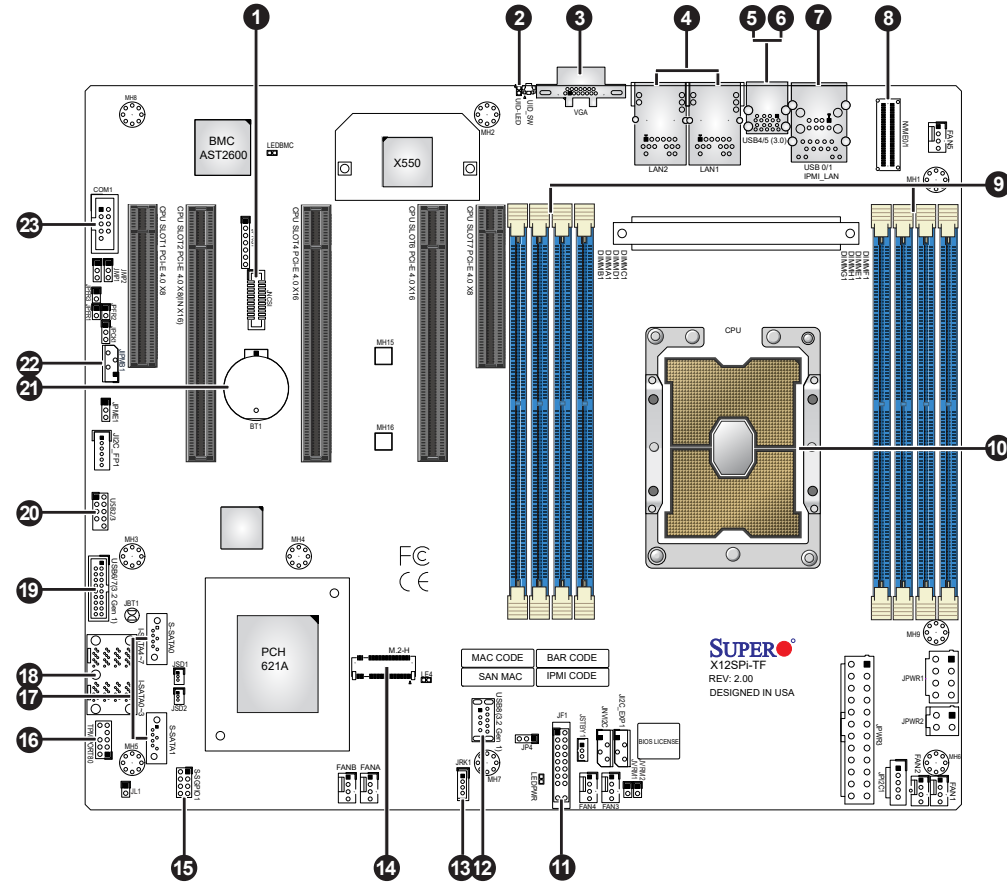


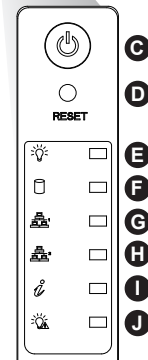
Board Layout



Item	Description
1	NC-SI Header for IPMI Support
2	UID Button (Unit Identifier Button)
3	VGA Port
4	Two 10GbE LAN Ports
5	USB 3.2 Gen 1 Ports
6	Dedicated LAN for IPMI
7	USB 2.0 Ports
8	NVME0/1: PCI-E 4.0 x8 Slimline SAS Connector
9	DIMM A1-H1 Slots
10	CPU
11	Front Control Panel Header
12	USB 3.2 Gen 1 Type-A port

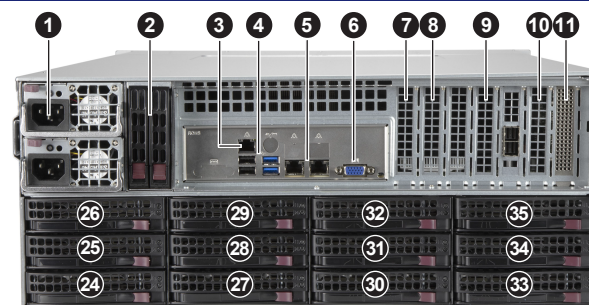
Item	Description
13	Intel RAID Key Header
14	M.2 PCI-E 3.0/SATA Interface
15	S-SGPIO Header
16	TPM Header
17	S-SATA0-1: Internal SATA Ports
18	I-SATA0-7: Internal SATA Ports
19	USB 3.2 Gen 1 Header
20	USB 2.0 Header
21	Onboard CMOS Battery
22	JIPMB1 4-Pin BMC External I2C Header
23	COM Port Header (Serial Port)

Front View & Interface



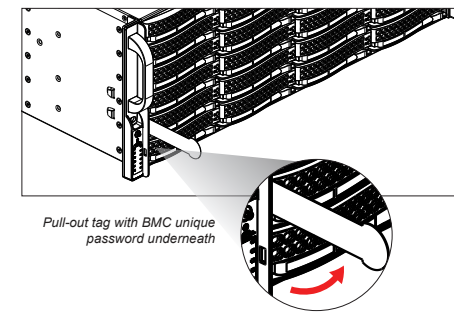
No.	Description
A	Drive Activity LED
B	Drive Status LED
C	Power Button
D	Reset Button
E	Power LED
F	Device Activity LED
G	LAN1 LED
H	LAN2 LED
I	Information LED
J	Power Failure LED
K	Service/Asset Tag (pull-out identifier with BMC_ADMIN default password underneath)

Rear View



No.	Description
1	Redundant Power Supply Modules (1 on top, 2 on bottom)
2	(Optional) 2.5" Rear Drive Cage
3	Dedicated LAN for IPMI
4	Two USB 3.2 Gen 1 (blue) and Two USB 2.0 (black) Ports
5	LAN 1 (left) and LAN 2 (right) Ports
6	VGA Port
7	PCI-E 4.0 x8 Expansion Slot 7 (LP)
8	PCI-E 4.0 x16 Expansion Slot 6 (LP)
9	PCI-E 4.0 x16 Expansion Slot 4 (LP)
10	PCI-E 4.0 x8 (in x16) Expansion Slot 2 (LP)
11	Broadcom 3808/3908 PCI-E Gen 4 SAS Controller Card

BMC Password Label

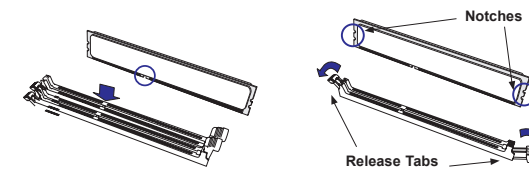


Each system comes with a unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker underneath the service tag on the chassis. If necessary, the password can be reset by the Supermicro IPMICFG tool.

For more information, please visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>.

Memory

DIMM Installation



When installing memory modules, the DIMM slots should be populated in the following order:

DIMMA1, DIMME1, DIMMC1, DIMMG1, DIMMB1, DIMMF1, DIMMD1, DIMMH1.

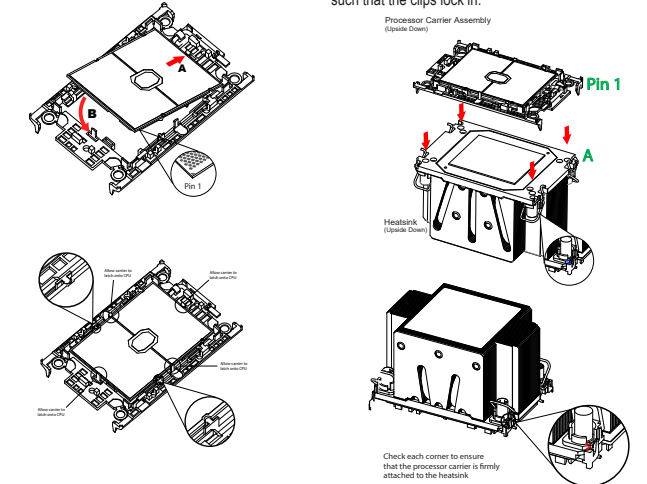
- Always use DDR4 DIMM modules of the same type, size, and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules (3, 5, or 7 modules installed). However, to achieve the best memory performance, fully populate the motherboard with validated memory modules.

Number of DIMMs	1 CPU, 8-DIMM Slots	
	Memory Population Sequence	
1	DIMMA1	
2	DIMMA1 / DIMME1	
3	DIMMA1 / DIMME1 / DIMMC1	
4	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1	
5	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1 / DIMMB1	
6	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1 / DIMMB1 / DIMMF1	
7	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1 / DIMMB1 / DIMMF1 / DIMMD1	
8	DIMMA1 / DIMME1 / DIMMC1 / DIMMG1 / DIMMB1 / DIMMF1 / DIMMD1 / DIMMH1	

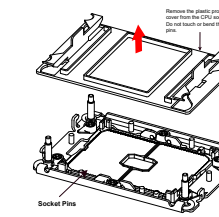
CPU Installation and Removal

Supports a single Intel Xeon Ice Lake Scalable Processor (LGA 4189)

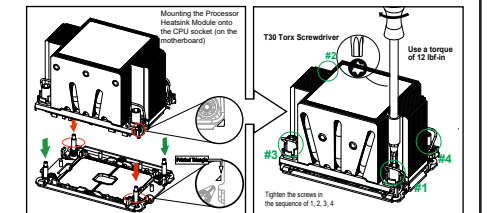
- A. Creating the Intel Ice Lake Carrier Assembly**
1. Locate small gold triangle (Pin 1) on processor and corresponding hollowed triangle on carrier.
 2. Using the triangles as a guide, carefully align and place Point A of the processor into the carrier. Gently snap into place to fasten onto Point B.
- B. Assembling the Processor Heatsink Module (PHM)**
1. Turn the heatsink upside down, and hold the processor carrier assembly with the gold contacts facing up.
 2. Align the triangle (Pin 1) on the assembly with the triangle cutout "A" of the heatsink and press into place such that the clips lock in.



- C. Preparing the CPU Socket for Installation**
- Gently pull off the plastic protective cover by one corner to remove it from the CPU socket.

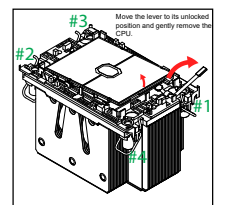


- D. Installing the Processor Heatsink Module**
1. Align the golden triangle (Pin 1) of the processor with the printed triangle on the socket. All four holes should be aligned.
 2. Ensure that the four rotating wires are in an "up" (unlocked) position.
 3. Mount the PHM onto the CPU socket on the motherboard and gently press into place. Flip the rotating wires to the sides to a locked position.
 4. With a T30 Torx-bit screwdriver, gently tighten peek nuts 1-4 in the order described on the heatsink label.



Removing the Processor Heatsink Module

1. Using a T30 Torx-bit screwdriver, loosen the four peek nuts in a backward sequence of 4, 3, 2, 1.
2. Ensure that the four rotating wires are in an "up" (unlocked) position.
3. Gently lift the module up to remove it from the socket.
4. Flip the PHM with the gold contacts facing up. Unlock the lever and gently remove the CPU.



Caution

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

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

WARNING:
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 <http://www.supermicro.com/support>.

