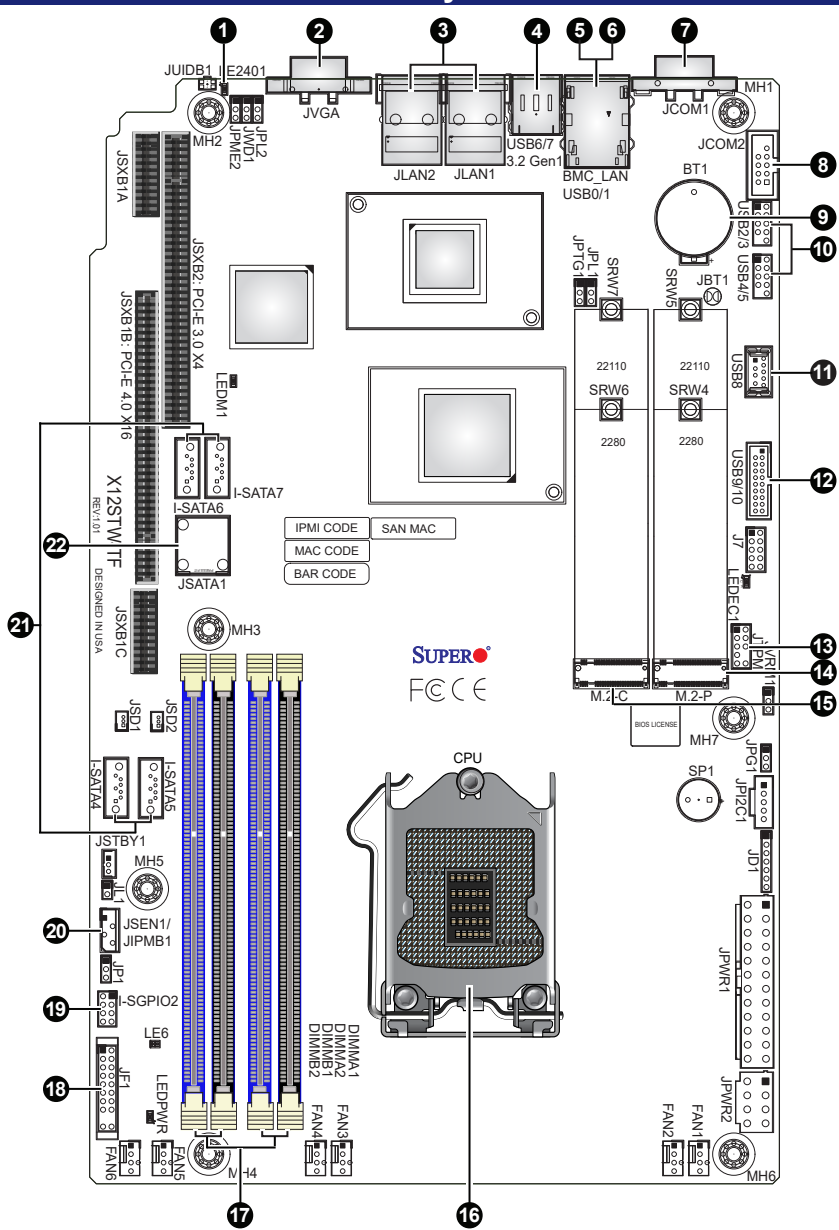


SUPERMICR SuperServer 510T-WTR Quick Reference Guide

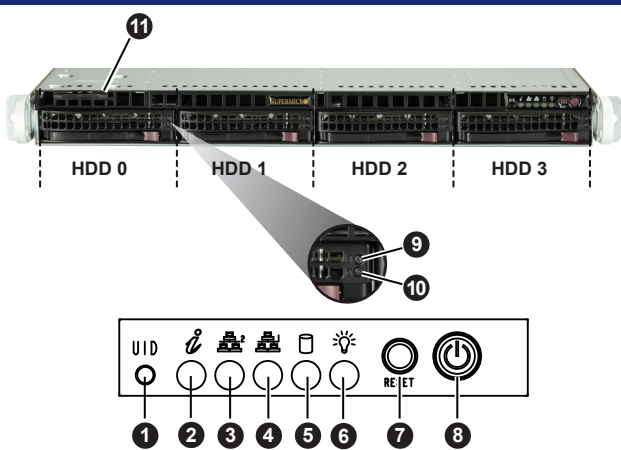
Board Layout



Item	Description
1	UID Button (Unit Identifier Button)
2	VGA Port (blue)
3	Two 10GbE LAN Ports
4	USB 3.2 Gen 1 Ports
5	Dedicated LAN for IPMI
6	USB 2.0 Ports
7	COM Port (Serial Port)
8	COM Port Header (Serial Port)
9	Onboard CMOS Battery
10	USB 2.0 Headers
11	USB 3.2 Gen 1 Type A Port

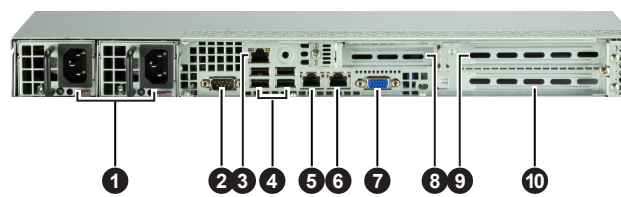
Item	Description
12	USB 3.2 Gen 1 Header
13	TPM Header
14	M.2 PCI-E 3.0 Interface
15	M.2 PCI-E 4.0 Interface (Xeon CPU only)
16	CPU
17	DIMM A1-B2 slots
18	Front Control Panel
19	I-SGPIO Header
20	JIPMB1 4-pin BMC External I2C Header
21	I-SATA4-7: Internal SATA Ports
22	I-SATA0-3: Internal SATA Ports

Front View and Features



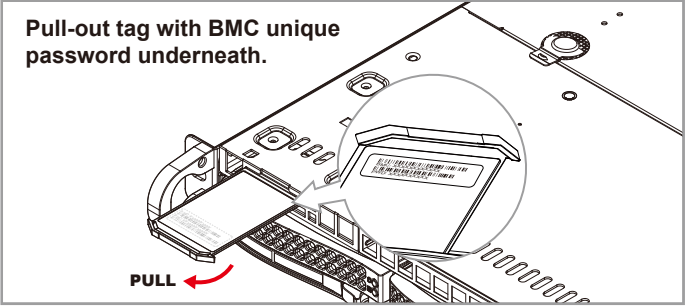
Control Panel Features	
Item	Description
1	UID Button
2	Information LED
3	NIC2 LED
4	NIC1 LED
5	HDD LED
6	Power LED
7	Reset Button
8	Power Button
9	Drive Activity LED
10	Drive Status LED
11	Service/Asset Tag (pull-out identifier with BMC_ADMIN default password underneath)

Rear View and Features



Item	Description
1	Redundant Power Supply Modules
2	Serial Port
3	Dedicated IPMI Port
4	Two USB 3.2 Gen 1 (blue), and Two USB 2.0 (black) Ports
5	LAN 1 Port
6	LAN 2 Port
7	VGA Port
8	PCI-E Expansion Slot 3 (LP)
9	PCI-E Expansion Slot 1 (FHFL)
10	PCI-E Expansion Slot 2 (FHFL)

BMC Password Label

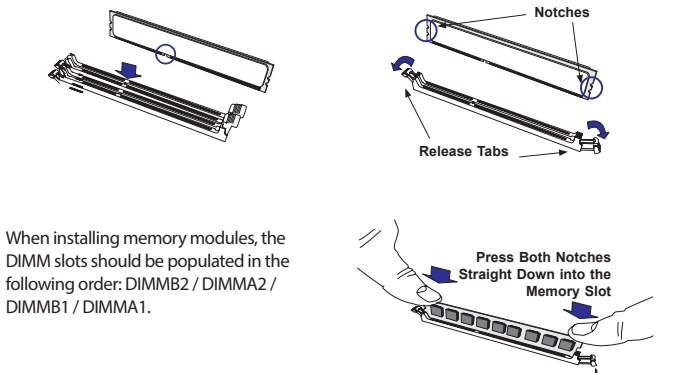


Each system comes with a unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker underneath the service tag on chassis. If necessary, the password can be reset by the Supermicro IPMICFG tool.

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

Memory

DIMM Installation



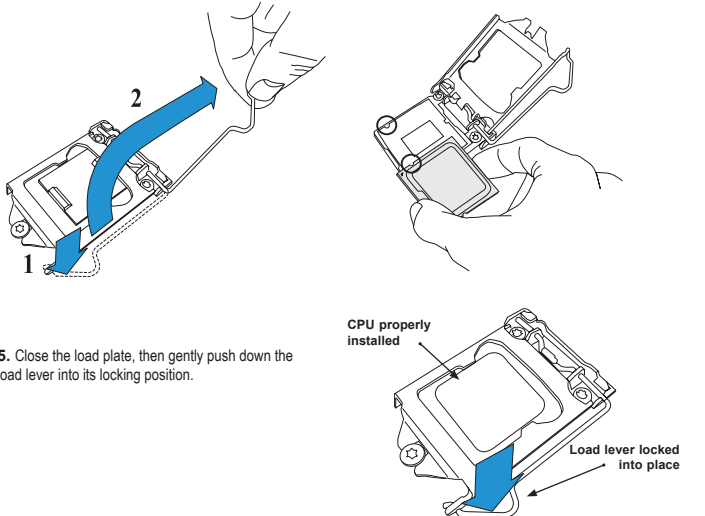
- Always use DDR4 DIMM modules of the same type, size, and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules (1 or 3 modules) installed. However, to achieve the best memory performance, fully populate the motherboard with validated memory modules.

1 CPU, 4 DIMM Slots	
Number of DIMMs	Memory Population Sequence
1	DIMMB2
2	DIMMB2 / DIMMA2
3	(Unbalanced; not recommended)
4	DIMMB2 / DIMMA2 / DIMMB1 / DIMMA1

CPU Installation and Removal

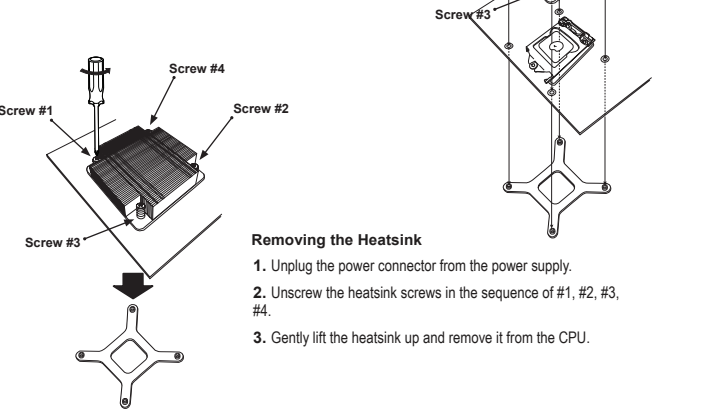
Supports a single Intel Xeon E-2300 or Pentium Processor (LGA 1200)

- Installing the LGA1200 Processor**
1. Press the load lever down to release the load plate from its locking position.
 2. Gently lift the load lever to open the load plate. Remove the plastic protective cover. Do not touch the CPU socket contacts.
 3. Align the Pin 1 triangle on the CPU with the Pin 1 triangle on the socket.
 4. Carefully lower the CPU straight down into the socket. Inspect the four corners to make sure that the CPU is properly installed. (You can only install the CPU in one direction.)



Installing a CPU Heatsink

1. Apply thermal grease to the heatsink or the CPU.
2. Align the four holes of the heatsink with the four mounting holes on the motherboard.
3. With a Phillips screwdriver, gradually tighten screws in the order of #1, #2, #3, #4, ensuring even pressure.



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>