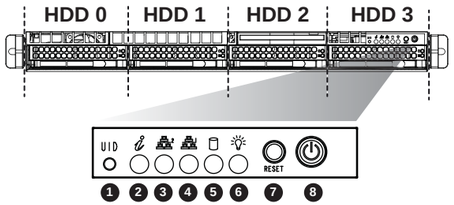
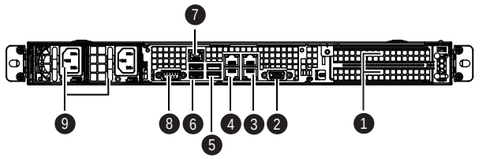
SUPERMICRO® SuperServer 5019S-W4TR Quick Reference Guide

Front View & Interface



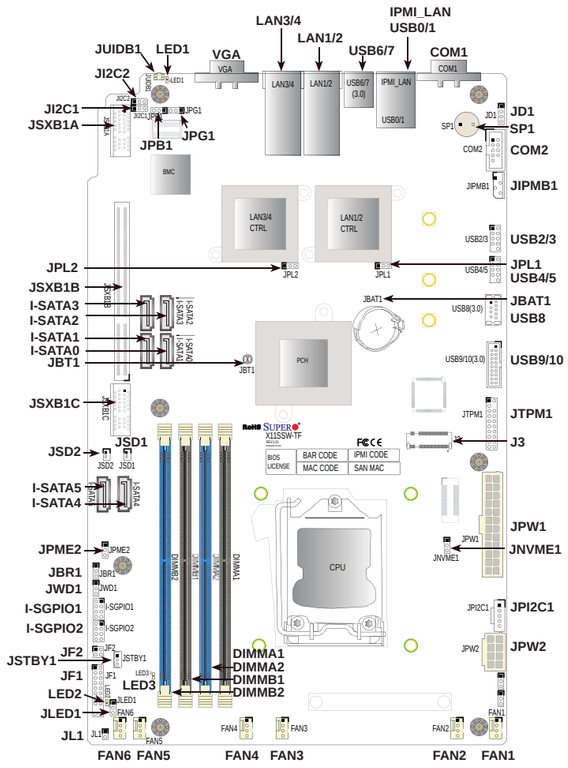
No.	Description
1	UID Button
2	Information LED
3	NIC2 LED
4	NIC1 LED
5	HDD LED
6	Power LED
7	Reset Button
8	Power Button

Rear View



No.	Description
1	Expansion Card Slot
2	VGA Port
3	LAN3 / LAN4 Port
4	LAN1 / LAN2 Port
5	USB6 / USB7 Port (3.0)
6	USB0 / USB1 Port
7	IPMI LAN Port
8	COM1 Port
9	Power Supply

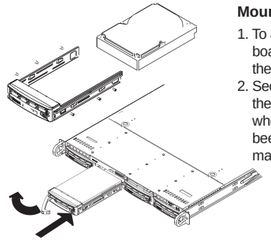
Board Layout



Jumpers and Connectors

Jumper	Description	Default Setting
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JBT1	Clear CMOS	Open (Normal)
JI2C1/JI2C2	SMB to PCI Slots	Pins 1-2 (Enabled)
JNVME1	NVMe Enable/Disable	Pins 2-3 (Auto)
JPB1	BMC Enable/Disable	Pins 1-2 (Enabled)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPL1	LAN1/LAN2 Enable/Disable	Pins 1-2 (Enabled)
JPL2	LAN3/LAN4 Enable/Disable	Pins 1-2 (Enabled)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JWD1	Watch Dog	Pins 1-2 (Reset)

Hard Drive Installation



Mounting a Drive in a Drive Carrier

1. To add a new drive, install it into the carrier with the printed circuit board side facing down so that the mounting holes align with those in the carrier.
2. Secure the drive to the carrier with the screws provided, then push the carrier completely into the drive bay. You should hear a *click* when the drive is fully inserted. This indicates that the carrier has been fully seated and connected to the midplane, which automatically makes the power and logic connections to the hard drive.

Installing/Removing Drive Carrier

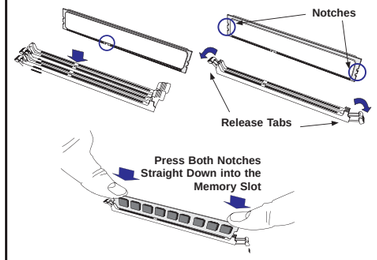
1. To remove a carrier, push the release button located beside the drive LEDs.
2. Swing the colored handle fully and use it to pull the unit straight out.

Beep Code

BIOS Beep (POST) Codes

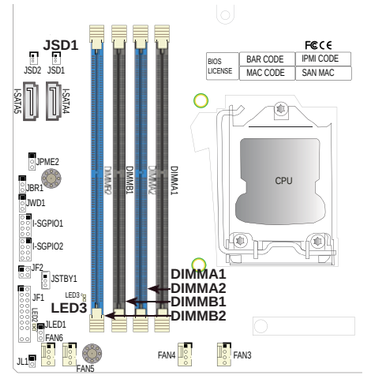
Beep Code	Error Message	Description
1 beep	Refresh	Ready to boot
5 short,1 long	Memory error	No memory detected in system
5 beeps	No con-in or con-out devices	Con-in includes USB or PS/2 keyboard, PCI or serial console redirection, and IPMI KVM or SOL. Con-out includes the video controller, PCI or serial console redirection, and IPMI SOL
1 beep per device	Refresh	1 beep for each US device detected

MEMORY



DIMM Installation

1. Starting with DIMMB2, push the release tabs outwards on both ends of the DIMM slot to unlock it.
2. Align the key of the DIMM with the receptive point on the memory slot and with your thumbs on both ends of the module, press it straight down into the slot until the module snaps into place.
3. Press the release tabs to the locked position to secure the DIMM module into the slot. Repeat for other DIMM slots as needed in the following order:
4. To remove a DIMM, unlock the release tabs then pull the DIMM from the memory slot.



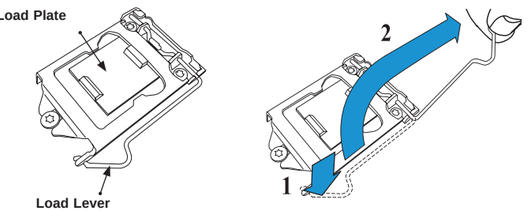
Jumpers and Connectors

LED	Description	Status
LED1	Rear UID LED	Blue: On; Unit Identified
LED2	Power LED	Green: Solid On; Power On
LED3	Standby Power LED	Green: Solid On; Standby Power On

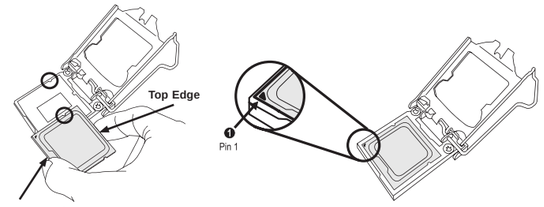
Connector	Description
COM1/COM2	COM Port/COM Header
FAN1 ~ FAN6	System/CPU Fan Headers
IPMI LAN	Dedicated IPMI Gigabit (RJ45) Port
I-SATA0 ~ I-SATA5	SATA 3.0 Connectors via Intel PCH (6Gb/s)
I-SGPIO 1/2	Serial Link General Purpose I/O Headers for I-SATA 3.0 connections (I-SGPIO1 for I-SATA0~3, I-SGPIO2 for I-SATA4~5)
J3	M.2 Socket 3 (supports 2260, 2280, 22110 for NVMe)
JBAT1	Onboard Battery
JD1	Speaker/Buzzer Header (Pins 1-4: Speaker, Pins 3-4: Buzzer)
JF1	Front Control Panel Header
JF2	Activity LED Header for LAN3/LAN4
JIPMB1	4-pin External BMC I2C Header (for an IPMI Card)
JL1	Chassis Intrusion Header
JLED1	3-pin Power LED Indicator Header
JPI2C1	Power I²C System Management Bus (Power SMB) Header
JPW1	24-pin ATX Main Power Connector (Required)
JPW2	+12V 8-pin CPU Power Connector (Required)
JSD1/JSD2	SATA Disk On Module (DOM) Power Connectors
JSTBY1	Standby Power Header
JSXB1A/1B/1C	SMC Proprietary WIO_L (Left) Add-On Card Slot
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	UID (Unit Identification) Switch
LAN1/LAN2/LAN3/LAN4	10 Gigabit (RJ45) LAN Ports
SP1	Internal Speaker/Buzzer
USB 0/1	Back Panel USB 2.0 Ports
USB 2/3, USB 4/5	Front Accessible USB 2.0 Headers
USB 6/7	Back Panel USB 3.0 Ports
USB 8	Front Accessible USB 3.0 Type-A Header
USB 9/10	Front Accessible USB 3.0 Header
VGA	Back Panel VGA Port

CPU Installation

1. Remove the cover plate that protects the CPU#1 socket: press the load lever to release the load plate, which covers the CPU socket, from its locked position.
2. Gently lift the load lever to open the load plate. Remove the plastic cover plate.



3. Use your thumb and your index finger to hold the edges of the processor. Align the CPU key (the semi-circle cutouts) with the socket keys.



4. Once aligned, carefully place the processor into the socket. Do not drop the processor on the socket, move or rub the processor against the socket or against any socket pins, which may damage the components.

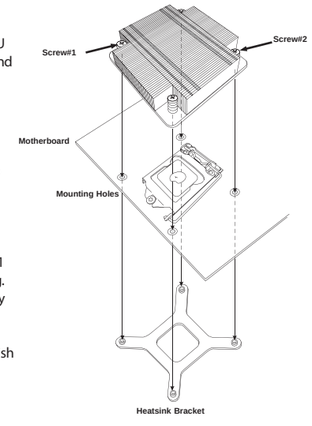
5. With the processor inserted into the socket, inspect the four corners of the CPU to make sure that it is properly installed and flush with the socket.

6. Carefully press the processor load lever down until it locks into its retention tab.

7. Place the heatsink on top of the CPU so that the four mounting holes are aligned with those on the heatsink retention mechanism.

8. Screw in two diagonal screws (i.e. the #1 and the #2 screws) until they are just snug. Do not fully tighten the screws or you may damage the CPU.

9. Add the two remaining screws then finish the installation by fully tightening all four screws (be careful not to overtighten).



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