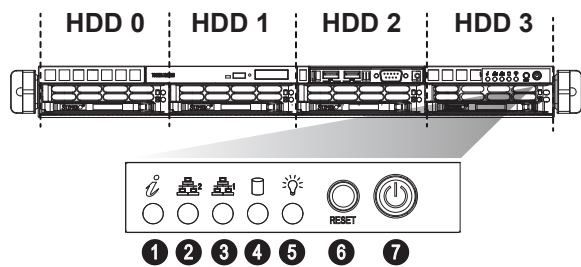


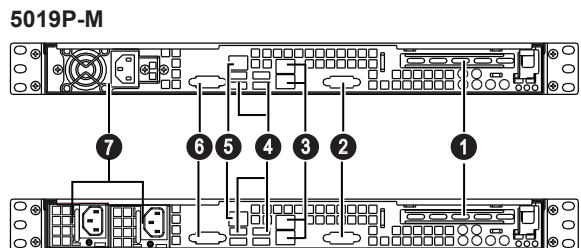
SUPERMICR[®] SuperServer 5019P-M/MR Quick Reference Guide

Front View & Interface



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

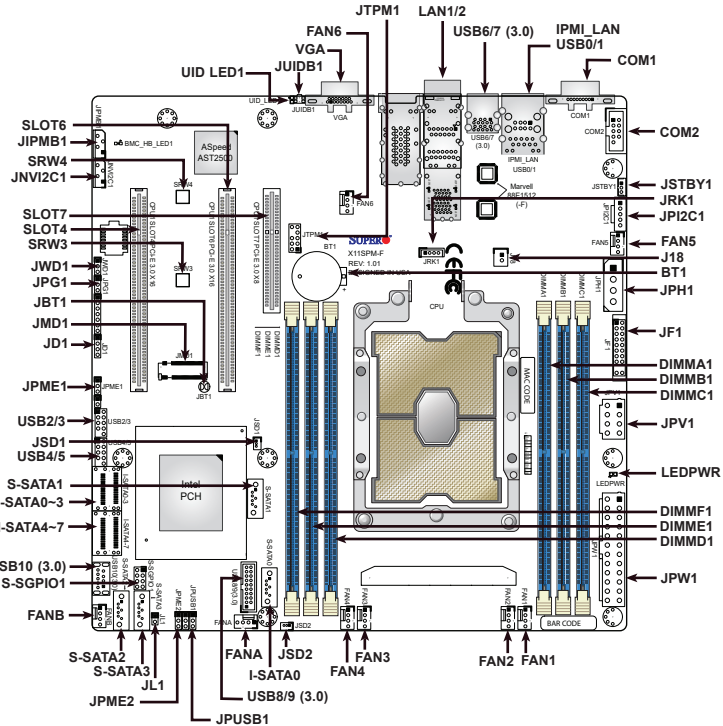
Rear View



5019P-MR

No.	Description
1	PCI-E Expansion Slot (w/riser card)
2	VGA Port
3	RJ45 GbE LAN1 / LAN2 Port
4	2x USB2.0 and 2x USB3.0 Ports
5	Dedicated LAN for IPMI
6	Serial Port
7	Power Supply Module

Board Layout



Jumpers and Connectors

Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPME1	ME Recovery	Pins 1-2 (Normal)
JPME2	Manufacturing Mode	Pins 1-2 (Normal)
JPSB1	Power Source Select For USB Port 0/1/6/7	Pins 1-2 (Standby)
JWD1	Watch Dog Timer	Pins 1-2 (Reset)

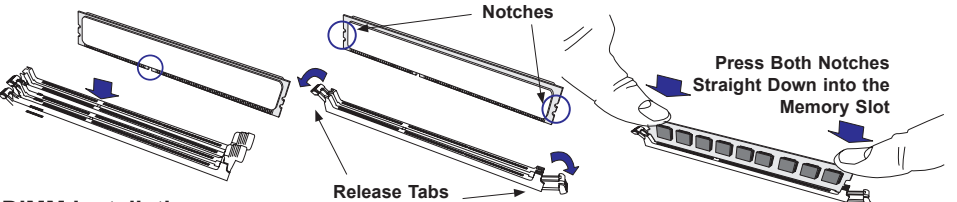
LED	Description	Status
BMC_HB_LED1	BMC Heartbeat LED	Blinking Green: Device Working
LEDPWR	Onboard Power LED	Green Solid On: Power On
UID_LED1	UID LED	Solid Blue: Unit Identified

Connector	Description
BT1	Onboard Battery
COM1, COM2	COM Port, COM Header
FAN1~FAN6, FANA/FANB	CPU/System Fan Headers

Jumpers and Connectors

Connector	Description
IPMI_LAN	Dedicated IPMI LAN Port
I-SATA0~7, S-SATA0~3	Intel PCH SATA 3.0 Ports (with RAID 0, 1, 5, 10)
J18	External RTC Battery Header
JD1	4-pin Speaker Header
JF1	Front Control Panel Header
JIPMB1	4-pin BMC External I2C Header (for an IPMI Card)
JL1	Chassis Intrusion Header
JMD1	M.2 PCI-E 3.0 x4 Slot (Supports M-Key 2280 and 2242)
JNVI2C1	NVMe I2C Header
JPH1	4-pin 12V Power Connector for GPU Card (Requires an extra 12V power at up to 75W)
JPI2C1	Power System Management Bus (SMB) I2C Header
JPV1	8-pin 12V CPU Power Connector
JPW1	24-pin ATX Power Connector
JRK1	Intel RAID Key Header
JSD1, JSD2	SATA DOM Power Connectors
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module/Port 80 Connector
JUIDB1	Unit Identifier (UID) Switch
LAN1, LAN2	1G BASE-T Ports
SLOT4	CPU PCI-E 3.0 x16 Slot
SLOT6	CPU PCI-E 3.0 x16 Slot
SLOT7	CPU PCI-E 3.0 x8 Slot
SRW3, SRW4	M.2 Mounting Holes
S-SGPI01	Serial Link General Purpose I/O Header
USB0/1	Back Panel Universal Serial Bus (USB) 2.0 Ports
USB2/3, USB4/5	Front Accessible USB 2.0 Headers
USB6/7	Back Panel USB 3.0 Ports
USB8/9	Front Accessible USB 3.0 Header
USB10	USB 3.0 Type-A Header
VGA	VGA Port

Memory



DIMM Installation

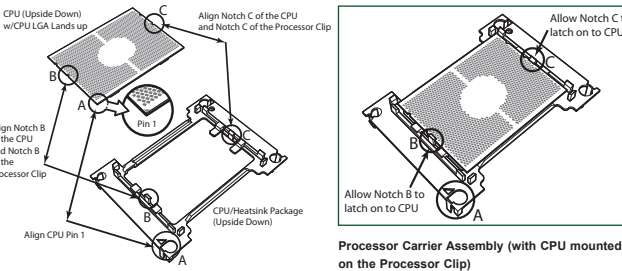
- Insert the desired number of DIMMs into the memory slots, in the order of DIMMA1, DIMMD1, DIMMB1, DIMME1, DIMMC1, DIMMF1. For best performance, please use the memory modules of the same type and speed.
- Push the release tabs outwards on both ends of the DIMM slot to unlock it.
- Align the key of the DIMM module with the receptive point on the memory slot.
- Align the notches on both ends of the module against the receptive points on the ends of the slot.
- Press the notches on both ends of the module straight down into the slot until the module snaps into place.
- Press the release tabs to the lock positions to secure the DIMM module into the slot.

Beep Code

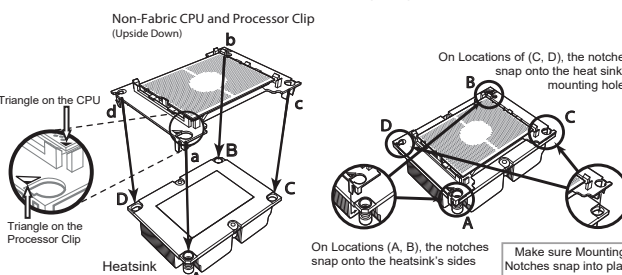
Hard Drive Carrier LED Indicators			BIOS Beep (POST) Codes		
LED	State/Condition	Indication	Beep Code	Error Message	Description
Green	Blinking	Drive activity	1 beep	Refresh	Circuits have been reset. (Ready to power up)
Red	Blinking	Drive rebuilding	5 short beeps + 1 long beep	Memory error	No memory detected in the system
Red	Solid on	Drive failure	5 long beeps + 1 short beep	Display memory read/write error	Video adapter missing or with faulty memory
			1 long, continuous beep	System OH	System Overheat

CPU Installation

Supports 1st and 2nd Generation Intel® Xeon® Scalable Processors 82xx/81xx/62xx/61xx/52xx/51xx/42xx/41xx/32xx/31xx with a thermal design power (TDP) of up to 165W and 28 cores
Note: The X115PM-F motherboard does not support FPGA or Fabric processors.



Attaching the Non-F Model Processor Carrier Assembly to the Heatsink to Form the Processor Heatsink Module (PHM)

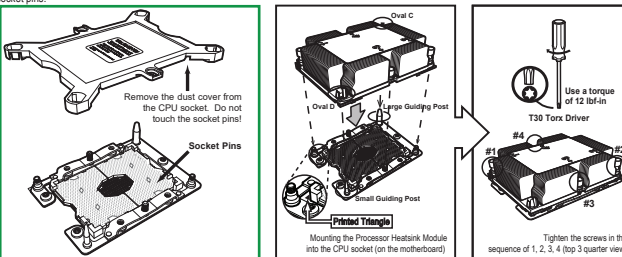


Removing the Dust Cover from the CPU Socket Before Installing the Processor Heatsink Module (PHM)

Remove the dust cover from the CPU socket.
Note: Touching the socket pins may cause damage and could ultimately result in CPU malfunction. Please avoid touching the socket pins.

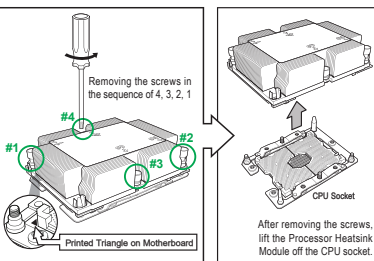
Installing the Processor Heatsink Module (PHM)

Note: Do not use excessive force when tightening the screws to avoid damaging the LGA lands and the processor.



Removing the Processor Heatsink Module (PHM) from the Motherboard

Expose the socket and socket pins as shown in the illustration on the right. Remember to snap the dust cover back in at the end.
Note: Touching the socket pins may cause damage and could ultimately result in CPU malfunction. Please avoid touching the socket pins.



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>