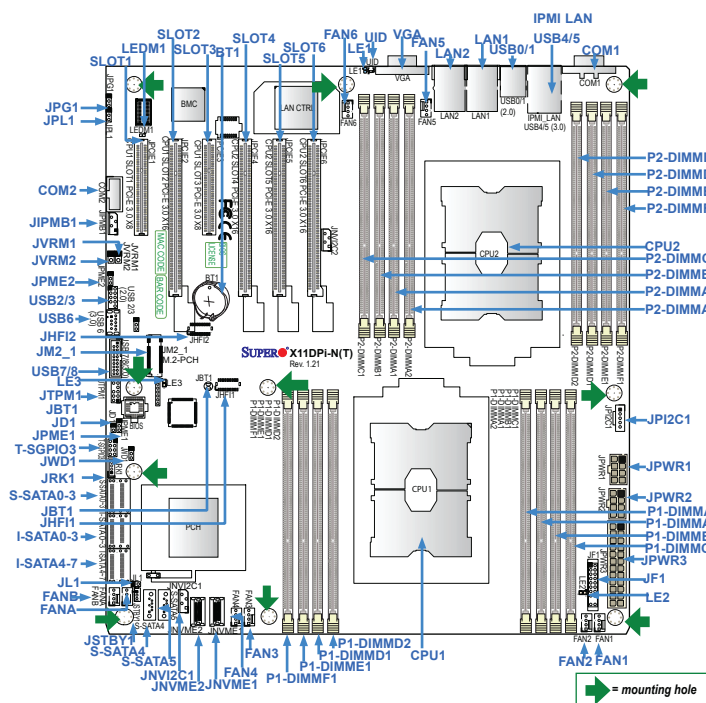


# SUPERMICR<sup>®</sup> SuperServer 7049P-TR/TRT Quick Reference Guide

## Board Layout



Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JPG1	Audio Enable	Pins 1-2 (Enabled)
JPME1	ME Recovery	Pins 1-2 (Normal)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JVRM1/ JVRM2	VRM SMB (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JWD1	Watch Dog Timer Enable	Pins 1-2 (Reset to System)
Connector	Description	
BT1	Onboard CMOS battery socket	
COM1/COM2	Back panel COM port/COM header for front access	
FAN1-6, FANA/FANB	System cooling fan headers (FAN1-FAN6, FAN A, FAN B)	
IPMI_LAN	Dedicated IPMI_LAN port	
I-SATA0~3, I-SATA4~7	SATA 3.0 connection header supported by the Intel PCH	
JF1	Front Panel Control header	
JHF11/JHF12	Host Fabric Interface (HFI) sideband headers for the HFI cards	
JIPMB1	4-pin BMC External I <sup>2</sup> C header (for an IPMI-supported card)	
JL1	Chassis Intrusion header	
JM2_1	M.2 slot	
JNVI <sup>2</sup> C1	NVMe I <sup>2</sup> C header	
JNVME1/JNVME2	NVMe Slot1/NVMe Slot2	
JPPC1	Power Supply SMBbus I <sup>2</sup> C header	
JPWR1/JPWR2	8-pin Power Supply connectors	
JPWR3	24-pin ATX main power supply connector	
JRK1	RAID Key for onboard SATA devices	
JSTBY1	Standby power header	
JTPM1	Trusted Platform Module (TPM)/Port 80 connector	
LAN1/LAN2 (Note)	Gigabit LAN/10G LAN Ethernet ports on the backpanel	
S-SATA0-3	S-SATA 3.0 connection Header supported by the Intel SCU	
S-SATA4/S-SATA5	Powered S-SATA Ports SuperDOM (Disk On Module) devices	
SLOT1/SLOT3	PCI-Express 3.0 X8 Slots supported by CPU1	
SLOT2	PCI-Express 3.0 X16 Slot supported by CPU1	
SLOT4/SLOT5/SLOT6	PCI-Express 3.0 X16 Slots supported by CPU2	
T-SGPIO3	General Purpose Serial I/O port	
UID	Unit Identifier (UID) switch	
USB0/1 & USB4/5	Backpanel USB 2.0 ports (USB0/1) & USB 3.0 ports (USB4/5)	
USB2/3	Front Accessible USB 2.0 header for USB 2/3	
USB6	Type A USB 3.0 Header	
USB7/8	Front Accessible USB 3.0 header for USB7/8	
VGA	VGA Port	

## CPU Support

This system supports dual Intel Xeon Scalable-SP or 2nd Gen Intel Xeon Scalable-SP series processors with support of UltraPath Interconnect (UPI) of up to 10.4 GT/s.

## Memory Support

This system supports up to 4TB of 3DS LRDIMM, LRDIMM, 3DS RDIMM, RDIMM, NV-DIMM DDR4 (288-pin) ECC 2933/2666/2400/2133 MHz memory modules in 16 slots.

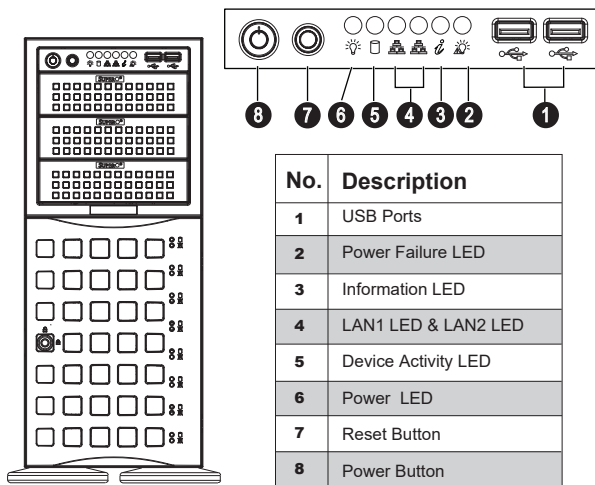
Notes:

- Up to 5TB is supported with (L)RDIMM and DCPMM populated in a balanced memory configuration.
- 2933 MHz memory is supported by 2nd Gen Intel Xeon Scalable-SP(82xx/62xx) series processors only.
- Unbalanced memory configuration decreases memory performance and is not recommended.

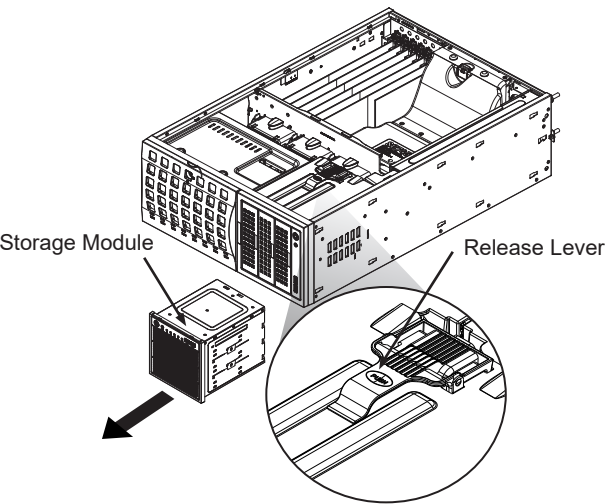
## Memory Population Table

When 1 CPU is used:	Memory Population Sequence
1 CPU & 1 DIMM	CPU1: P1-DIMMA1
1 CPU & 2 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1
1 CPU & 3 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1
1 CPU & 4 DIMMs	CPU1: P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1
1 CPU & 5 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1
1 CPU & 6 DIMM	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/ P1-DIMMF1
1 CPU & 7 DIMMs (Unbalanced: not recommended)	CPU1:P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD1/ P1-DIMME1/P1-DIMMF1
1 CPU & 8 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/ P1-DIMMD1/P1-DIMME1/P1-DIMMF1
When 2 CPUs are used:	Memory Population Sequence
2 CPUs & 2 DIMMs	CPU1: P1-DIMMA1 CPU2: P2-DIMMA1
2 CPUs & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1 CPU2: P2-DIMMA1/P2-DIMMD1
2 CPUs & 6 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1
2 CPUs & 8 DIMMs	CPU1: P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1 CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1
2 CPUs & 10 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/ P1-DIMMF1 CPU2: P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1
2 CPUs & 12 DIMMs	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMD1/P1-DIMME1/ P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMD1/P2-DIMME1/ P2-DIMMF1
2 CPUs & 14 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD1/ P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMA2/P2-DIMMD1/ P2-DIMME1/P2-DIMMF1
2 CPUs & 16 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMC1/P1-DIMMB1/P1-DIMMA1/P1-DIMMA2/P1-DIMMD2/ P1-DIMMD1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMC1/P2-DIMMB1/P2-DIMMA1/P2-DIMMA2/P2-DIMMD2/ P2-DIMMD1/P2-DIMME1/P2-DIMMF1

## Front View & Interface



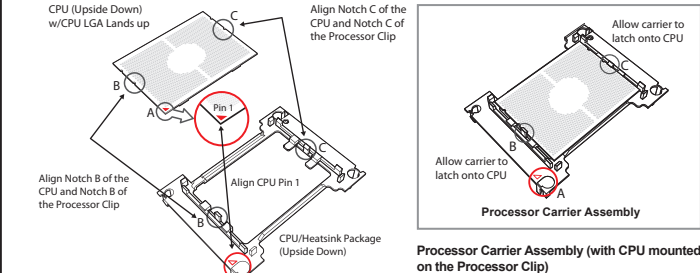
## Rotating the Optional Storage Module



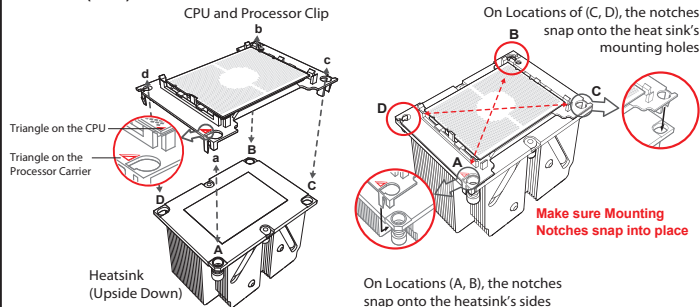
## Rotating the Storage Module for Rack Mounting

- Open the chassis cover.
- Locate the storage module and disconnect any cables from the storage module to any component in the chassis
- Push the storage module release lever. This lever unlocks the storage module
- Grasp the external edges of the storage module and pull the unite from the chassis
- Turn the storage module 90 degrees
- Reinsert the module into the chassis and reconnect the cords

## CPU Installation



## Attaching the Processor Carrier Assembly to the Heatsink to Form the Processor Heatsink Module (PHM)

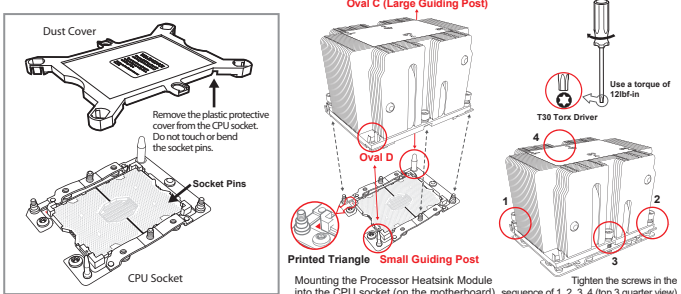


## Removing the Dust Cover from the CPU Socket

Remove the dust cover from the CPU socket, exposing the socket and socket pins as shown on the illustration below. **Note:** Do not touch the socket pins to avoid damaging them, causing the CPU to malfunction.

## 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.



## 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](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>

