CONTACT INFORMATION

- Website: www.supermicro.com
- General Information: marketing@supermicro.com
- Technical Support: support@supermicro.com
 Phone: +1 (408) 503-8000, Fax: +1 (408) 503-8008

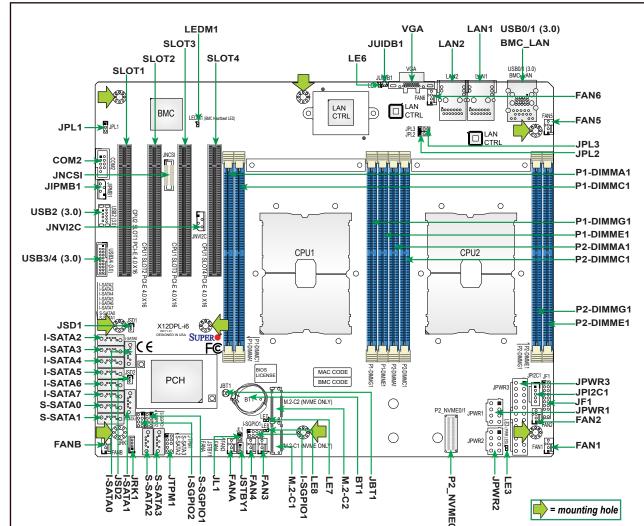
FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:

- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

- PACKAGE CONTENTS
 One Supermicro Motherboard
- Two CPU Carriers (SKT-1205L-P4IC-FXC)
- Six SATA Cables (CBL-0044L)
 One I/O Shield (MCP-260-00156-0N)
- One Quick Reference Guide (MNL-2339-QRG)

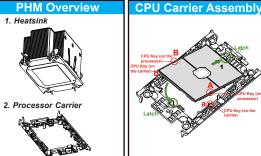


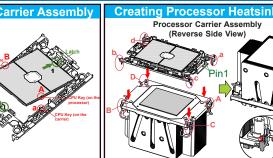
Motherboard Layout and Features



CPU/Heatsink Installation

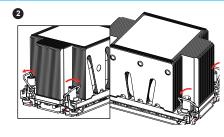
4. Processor Heatsink Modu



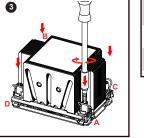


ting Processor Heatsink Module				
Processor Carrier Assembly			2	
(Reverse Side View)	Power Button	0	0	Ground
	Reset Button	0	0	Ground
	3.3V	0	0	Power Fail (for LED6)
	Red+ (Blue LED_Cathode_UID)	0	0	Blue+ (Red OH/Fan Fail/ PWR Fail for LED5/Blue UID LED
Pin1 o	NIC2 (Activity) LED	0	0	NIC2 (Link) LED
	NIC1 (Activity) LED	0	0	NIC1 (Link) LED
	ID_UID/3.3V Stby	0	0	HDD LED
	3.3V	0	0	FP PWR LED
	Key	0	0	Key
	NMI	0	0	Ground
		19	20	,

Instal



ling the PHM (Processor Heatsink Module



Front Control Panel

Connectors

Connectors	
Connector	Description
BMC_LAN	Dedicated BMC LAN Port
BT1	Onboard CMOS Battery
COM2	Front Accessible COM Port Header
FAN1 - FAN6, FANA, FANB	CPU/System Fan Headers
JF1	Front Control Panel Header
JIPMB1	4-pin BMC External I ² C Header
JL1	Chassis Intrusion Header
JNCSI	NC-SI (Network Controller Sideband Interface) Connector
JNVI ² C	NVMe I ² C Header
JPI ² C1	Power SMBus (System Management Bus) I ² C Header
JPWR1, JPWR2	8-pin Power Supply Connectors
JPWR3	24-pin ATX Main Power Supply Connector
JSD1, JSD2	SATA DOM (Disk-On-Module) Power Connectors
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	Unit Identifier (UID) Switch / BMC Reset Button
LAN1, LAN2	Ethernet LAN (RJ45) Port 1 and Port 2 (1G LAN support on X12DPL-i6 and 10G LAN support on X12DPL-NT6)
M.2-C1, M.2-C2	PCIe 4.0 x4 M.2 Slots (with support of M-key 2280 and 22110)
P2-NVME0/1	PCIe 4.0 x8 NVMe SlimSAS Port with support of two NVMe connections (X12DPL-NT6 only)
I-SATA0 - I-SATA7	Intel PCH SATA 3.0 Ports (with RAID 0, 1, 5, 10 support); I-SATA0/1: Intel PCH Powered I-SATA 3.0 Ports with support for SuperDOM (Disk on Module) devices
S-SATA0 - S-SATA3	Intel PCH S-SATA 3.0 Ports (with RAID 0, 1, 5, 10 support)
I-SGPIO1, I-SGPIO2	Serial General Purpose I/O Headers (for I-SATA0/1/2/3 and I-SATA4/5/6/7)
S-SGPIO1	Serial General Purpose I/O Header (for S-SATA0/1/2/3)
SLOT1	PCle 4.0 x16 Slot supported by CPU2
SLOT2, SLOT3, SLOT4	PCle 4.0 x16 Slots supported by CPU1
USB0, USB1 (3.0)	Rear I/O USB 3.0 Ports
USB2 (3.0)	Internal Type-A USB 3.0 Header
USB3/4 (3.0)	Front-accessible USB 3.0 Header with support for two USB 3.0 ports
VGA	Rear I/O VGA Port
VROC (JRK1)	Intel VROC Key Header for NVMe RAID support

Note 1: Refer to Chapter 2 of the user's manual for CPU/Heatsink and memory Installation instructions. Please also visit our website at www.supermicro.com for CPU/Memory support updates. Note 2: All graphics shown in this quick reference guide (QRG) are for illustration only. Your components may or may not look the same as the graphics shown in this QRG.

Jumpers and LED Indicators

	Jumper	Description	Default Setting
	JBT1	CMOS Clear	Open (Normal)
	JPL1	X12DPL-NT6 LAN Enable/Disable	Pins 1-2 (Enabled)
	JPL2, JPL3	X12DPL-i6 LAN1, LAN2 Enable/Disable	Pins 1-2 (Enabled)
	LED	Description	Status
	LE3	Power LED	LED On: Onboard Power On
	LE6	Unit Identifier (UID) LED	Solid Blue: Unit Identified
	LE7, LE8	PCIe M.2 Activity LEDs	Blinking Green: M.2 Active
r	LEDM1	BMC Heartbeat LED	Blinking Green: BMC Normal

CPU Support

This motherboard supports dual 3rd Generation Intel® Xeon® Scalable Family Processors (in Socket P+/LGA4189) with a Thermal Design Power (TDP) of up to

Memory Support

This motherboard supports up to 2 TB of 3DS LRDIMM/LRDIMM/3DS RDIMM/RDIMM DDR4 (288-pin) ECC memory with speeds of 3200/2933/2666 MHz in eight slots.

Memory Population Table

Memory Population Table (3DS LRDIMM/LRDIMM/3DS RDIMM/RDIMM DDR4 ECC Memory)		
When 1 CPU used:	Memory Population Sequence	
1 CPU & 1 DIMM	CPU1: P1-DIMMA1	
1 CPU & 2 DIMMs	CPU1: P1-DIMMA1/P1-DIMME1	
1 CPU & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMME1/P1-DIMMC1/P1-DIMMG1	
When 2 CPUs used:	Memory Population Sequence	
2 CPUs & 2 DIMMs	CPU1: P1-DIMMA1	
2 CFUS & 2 DIIVINIS	CPU2: P2-DIMMA1	
2 CPUs & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMME1	
2 Of US & 4 DIMINIS	CPU2: P2-DIMMA1/P2-DIMME1	
2 CPUs & 6 DIMMs	CPU1: P1-DIMMA1/P1-DIMMC1/P1-DIMME1/P1-DIMMG1	
2 CPUS & 6 DIIVIIVIS	CPU2: P2-DIMMA1/P2-DIMME1	
2 CPUs & 8 DIMMs	CPU1: P1-DIMMA1/P1-DIMMC1/P1-DIMME1/P1-DIMMG1	
	CPU2: P2-DIMMA1/P2-DIMMC1/P2-DIMME1/P2-DIMMG1	

Rear I/O Connectors



	Rear I/O Ports					
No.	Description	No.	Description			
1.	BMC LAN Port	6.	Rear VGA Port (VGA)			
2.	USB0 (USB 3.0)	7.	Unit Identifier Switch (UID / BMC Reset Button			
3.	USB1 (USB 3.0)					
4.	1G LAN1 (X12DPL-i6), 10G LAN1 (X12DPL-NT6)					
5.	1G LAN2 (X12DPL-i6), 10G LAN2 (X12DPL-NT6)					

MNL-2339-QRG-100