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**FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE**

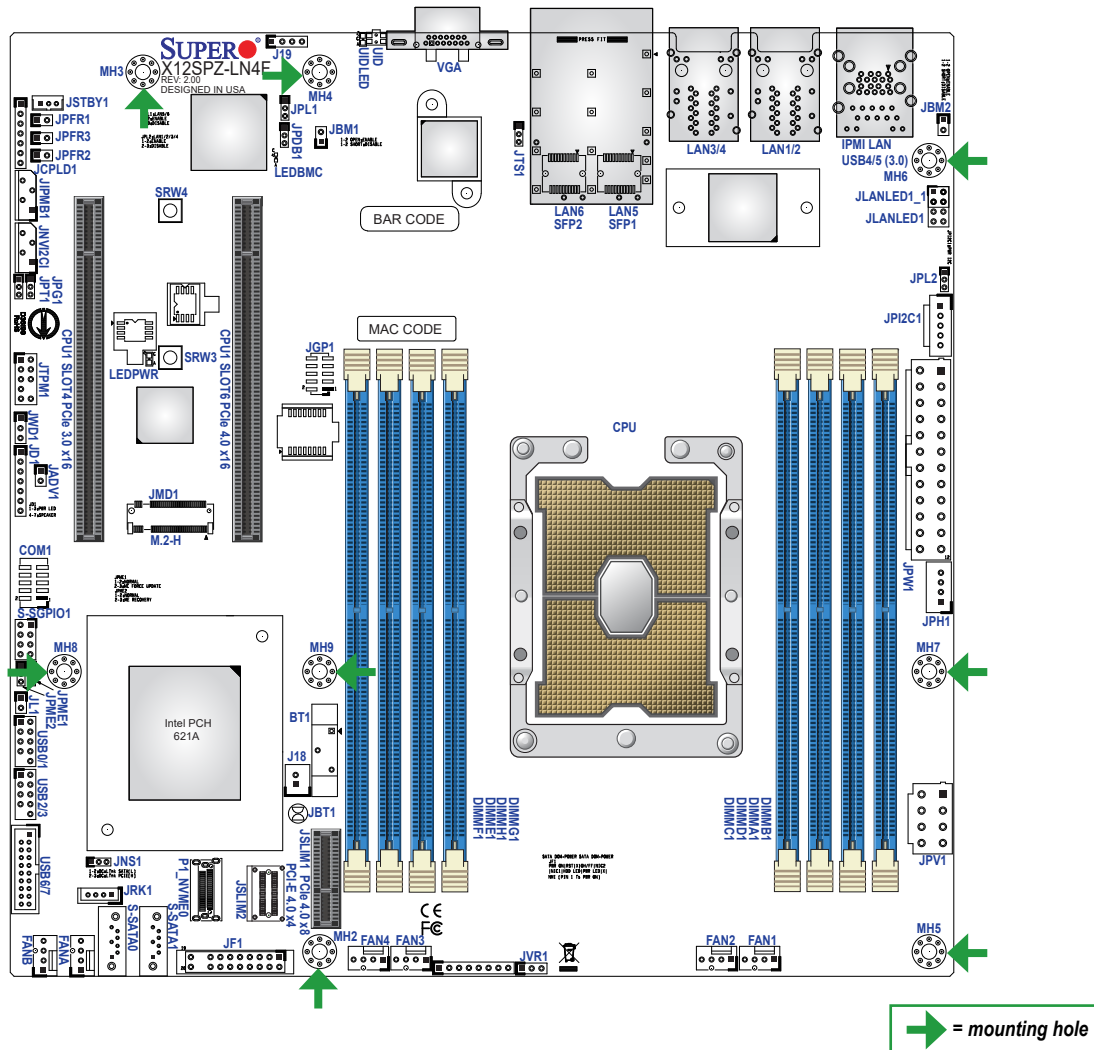
- DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:**
- Manuals: <http://www.supermicro.com/support/manuals>
  - Drivers & Utilities: <https://www.supermicro.com/wdl/driver/>
  - Safety: [http://www.supermicro.com/about/policies/safety\\_information.cfm](http://www.supermicro.com/about/policies/safety_information.cfm)

**PACKAGE CONTENTS**

- One Supermicro Motherboard
- One Quick Reference Guide
- One I/O Shield
- Two SATA Cables
- One CPU Carrier

**WARNING:** This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Motherboard Layout and Features**



**Jumpers and Connectors**

Jumpers		
Jumper	Description	Default Setting
JBM1	Disable IPMI Share LAN	Pins 1-1 (Enabled)
JBM2	Disable IPMI Dedicated/Share LAN	Pins 1-1 (Enabled)
JBT1	CMOS Clear	Open (Normal)
JNS1	OCulink to 4x SATA or PCIe x4 Selection	Pins 2-3 (PCIe x4)
JPDB1	COM1 Function Selection	Pins 1-2 (BMC COM port)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPL1	LAN5/6 Enable/Disable	Pins 1-2 (Enabled)
JPL2	LAN1/2/3/4 Enable/Disable	Pins 1-2 (Enabled)
JPME1	ME Recovery Mode	Pins 1-2 (Normal)
JPME2	Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM Enable/Disable	Pins 1-2 (Enabled)

Connectors	
Connector	Description
BT1	Onboard Battery
COM1	COM Header
FAN1 - FAN4, FANA, FANB	CPU/System Fan Headers (FAN1: CPU Fan)
IPMI LAN	Dedicated IPMI LAN Port
J18	Extended COMS Battery Connector
JD1	Speaker (Pins 1-3: Power LED, Pins 4-7: Speaker)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JIPMB1	System Management Bus Header (for IPMI only)
JL1	Chassis Intrusion Header
JLANLED1	LAN3 - LAN6 Activity LED Header for SPLN6F
JLANLED1_1	LAN3 - LAN4 Activity LED Header for LN4F
JMD1	M.2 M-Key 2242/2280 (PCIe x4/SATA) Slot
JNVPC1	Non-Volatile Memory (NVMe) I <sup>2</sup> C Header
JPH1	4-pin HDD Power Connector
JPIPC1	Power I <sup>2</sup> C System Management Bus (Power SMB) Header
JPW1	24-pin ATX Power Connector (Required)
JPV1	8-pin CPU Power Connector (Required)
JRK1	Intel RAID Key Header
JSLIM1	PCIe 4.0 x8 SlimSAS Connector
JSLIM2	PCIe 4.0 x4 SlimSAS Connector
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector

**Connectors and LED Indicators**

Connectors	
Connector	Description
LAN1/2, LAN3/4	LAN RJ45 Port
LAN5, LAN6	25G/10G Fiber LAN Ports
MH2 - MH9	Mounting Holes
P1_NVME0	OCulink Connector (to 4x SATA or PCIe x4)
S-SATA0, S-SATA1	SATA 3.0 Ports
S-SGPIO1	Serial Link General Purpose I/O Header
SLOT4	CPU1 PCIe 4.0 x16 Slot
SLOT6	CPU1 PCIe 4.0 x16 Slot
SRW3, SRW4	M.2 Mounting Holes
UID	Unit Identifier Switch
USB0/1, USB2/3	Front Accessible USB 2.0 Headers
USB4/5	Back Panel USB 3.0 Ports
USB6/7	Front Accessible USB 3.0 Header
VGA	VGA Port

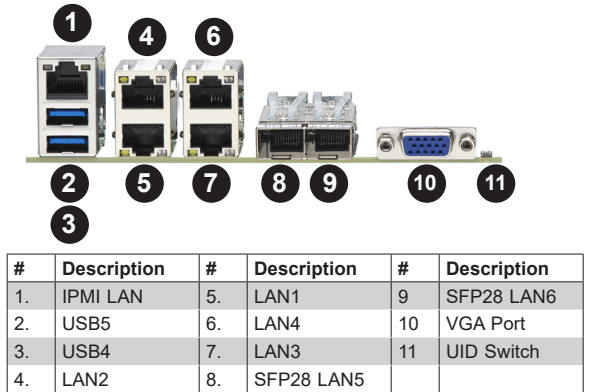
LED Indicators		
LED	Description	Status
LEDBMC	BMC Heartbeat	Blinking Green: BMC Normal
LEDPWR	Onboard Power LED	Solid Green: Power On
UID LED	Unit Identifier LED	Solid Blue: Unit Identified

**CPU and Memory Support**

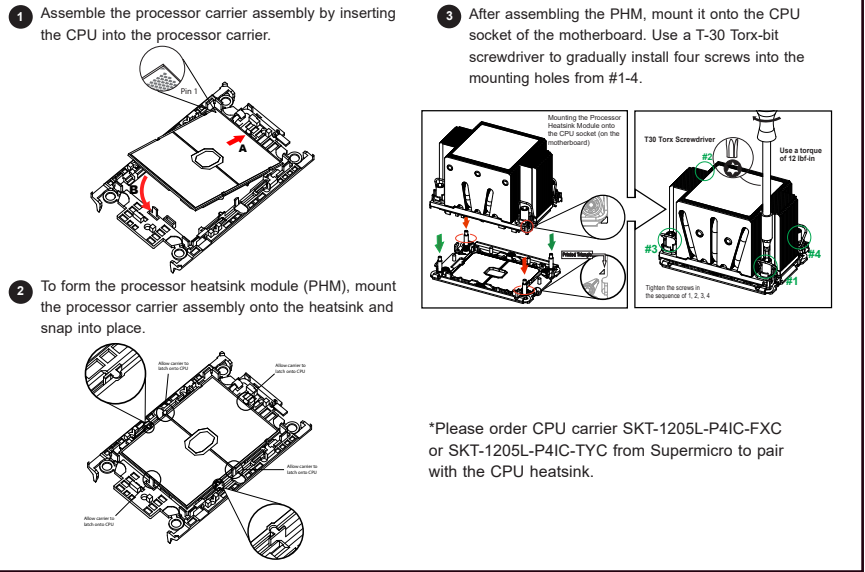
The X12SPZ-SPLN6F/LN4F motherboard supports a 3rd Generation Intel<sup>®</sup> Xeon Scalable Processor with up to 40 cores in a Socket P+ socket.

The motherboard supports up to 2 TB of ECC RDIMM and LRDIMM DDR4 memory with speeds of up to 3200 MT/s in eight memory slots.

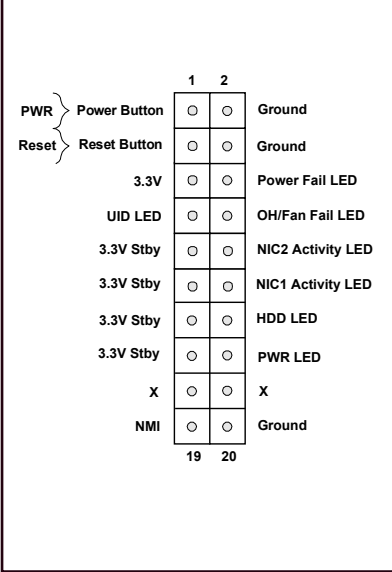
**Back Panel I/O Connectors**



**CPU and PHM Installation**



**Front Control Panel**



**Note:** Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

**Note:** Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

**Note:** Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/motherboard installation instructions.