SUPERMICRO®
X13SCH-F/LN4F
QUICK REFERENCE GUIDE 1.00

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
- One Quick Reference Guide
- One I/O Shield
- One SATA Cable

Motherboard Layout and Features

= mounting hole
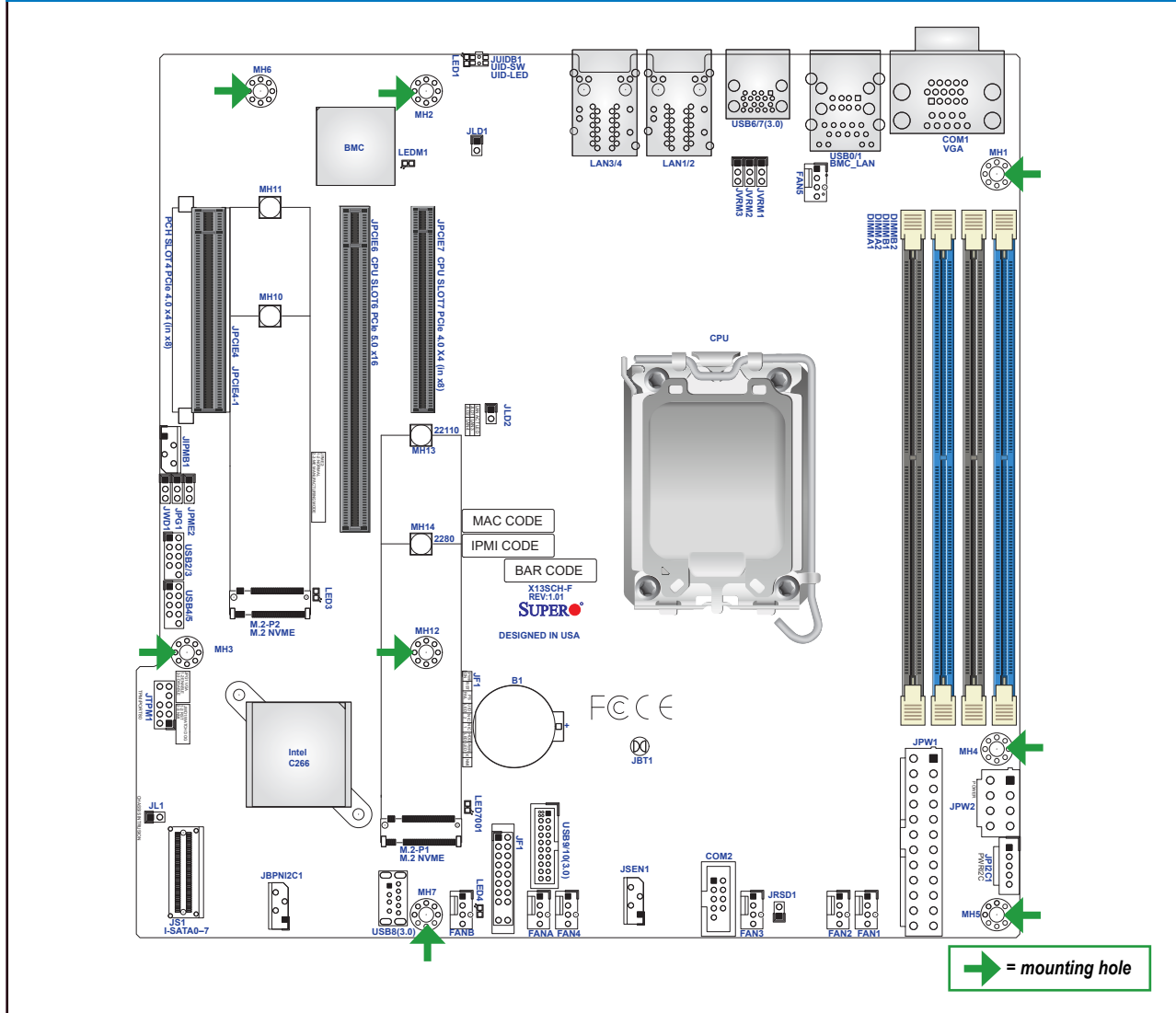
Jumpers and Connectors

Jumpers

Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JPG1	VGA Enable/Disable	Pins 1–2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1–2 (Normal)
JWD1	Watchdog Timer	Pins 1–2 (Reset)

Connectors

Connector	Description
BMC_LAN	Dedicated BMC LAN Port
B1	Onboard Battery
COM1	COM Port
COM2	COM Header
FAN1–FAN5 FANA, FANB	CPU/System Fan Headers (FAN1: CPU Fan)
JBPNI²C1	4-pin BMC External I²C Header
JF1	Front Control Panel Header
JIPMB1	4-pin BMC External I²C Header (for an IPMI card)
JL1	Chassis Intrusion Header
JLD1	LAN3 Link Activity LED Header (X13SCH-LN4F only)
JLD2	LAN4 Link Activity LED Header (X13SCH-LN4F only)
JPCIE4	PCH SLOT4 PCIe 4.0 x4 (in x8) Slot
JPCIE6	CPU SLOT6 PCIe 5.0 x16 Slot
JPCIE7	CPU SLOT7 PCIe 4.0 x4 (in x8) Slot
JPI²C1	Power I²C System Management Bus (Power SMB) Header
JPW1	24-pin ATX Power Connector
JPW2	8-pin CPU Power Connector
JS1	Intel® PCH SATA 3.0 Ports (with RAID 0, 1, 5, 10 support)
JSEN1	Inlet Sensor Header
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
JUIDB1	UID Switch
LAN1–LAN4	1GbE LAN Ports X13SCH-F only: LAN1–LAN2 X13SCH-LN4F only: LAN1–LAN4
M.2-P1 M.2 NVME, M.2-P2 M.2 NVME	M.2 PCIe 4.0 x4 Slots from PCH (Supports M-Key 2280 and 22110)
MH1–MH7, MH12	Mounting Holes
MH10–MH11, MH13–MH14	M.2 Mounting Holes
USB0/1	Back Panel USB 2.0 Ports

Connectors and LED Indicators

Connectors

Connector	Description
USB2/3, USB4/5	Front Accessible USB 2.0 Headers
USB6/7	Back Panel USB 3.2 Gen 1 Ports
USB8	Front Accessible USB 3.2 Gen 1 Type-A Header
USB9/10	Front Accessible USB 3.2 Gen 1 Header
VGA	VGA Port

LED Indicators

LED	Description	Status
LED1	Unit Identifier (UID) LED	Solid Blue: Unit Identified
LED3	PCIe M.2-P2 Activity LED	Blinking Green: M.2-P2 Active
LED4	Power LED	LED On: Onboard Power On
LED7001	PCIe M.2-P1 Activity LED	Blinking Green: M.2-P1 Active
LEDM1	BMC Heartbeat LED	Blinking Green: Device Working

CPU Support

The X13SCH-F/LN4F motherboard supports an Intel® Xeon® E-2400 or 12th Generation Pentium (Socket V0 - LGA 1700) processor with up to eight cores.

Memory Support

The X13SCH-F motherboard supports up to 128 GB of DDR5 ECC UDIMM memory with speeds of up to 4400 MT/s in four memory slots. Note that this motherboard supports 4400 MT/s with the one DIMM per channel population configuration.

CPU Installation

- Pin 1
- CPU notch
- CPU load bracket notch

Heatsink Installation

Apply thermal grease

Front Control Panel

	1	2	
PWR Power Button	○	○	Ground
Reset Reset Button	○	○	Ground
3.3 V	○	○	Power Fail LED
5 V/UID LED	○	○	OH/Fan Fail LED
3.3 V LAN	○	○	NIC2 Active LED
3.3 V LAN	○	○	NIC1 Active LED
3.3 V/UID SW	○	○	HDD LED
3.3 V	○	○	PWR LED
X	○	○	X
NMI	○	○	Ground
	19	20	

Back Panel I/O Connectors

#	Description	#	Description	#	Description
1	COM1	6	USB6 (USB 3.2 Gen 1)	11	LAN4 (X13SCH-LN4F only)
2	VGA	7	USB7 (USB 3.2 Gen 1)	12	UID Switch
3	BMC LAN	8	LAN1		
4	USB0 (USB 2.0)	9	LAN2		
5	USB1 (USB 2.0)	10	LAN3 (X13SCH-LN4F only)		

Rear I/O Ports
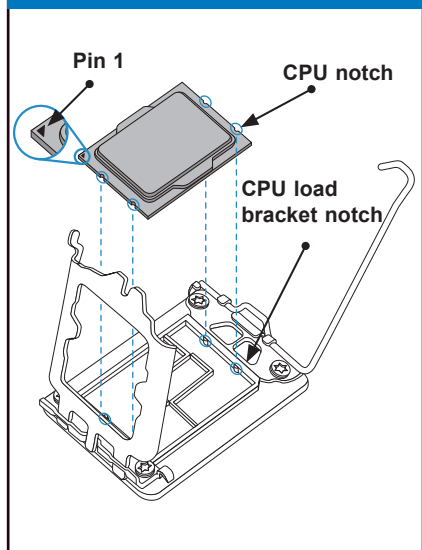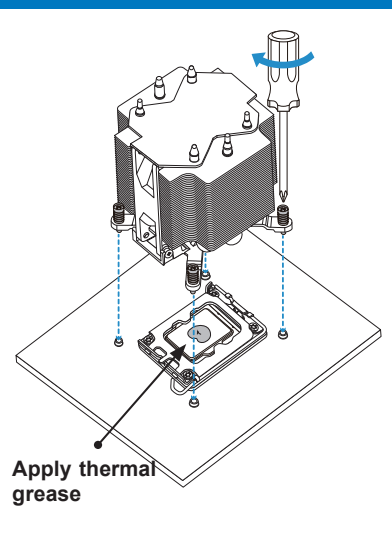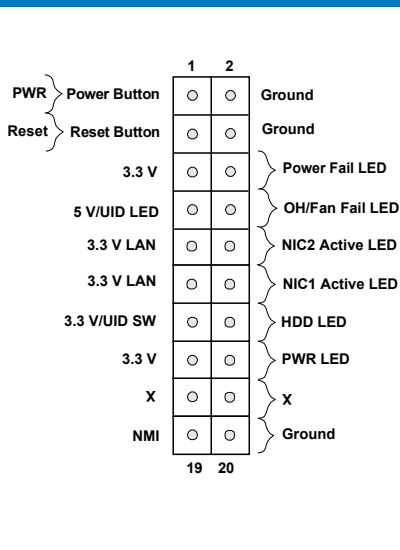
Note: Graphics shown in this quick reference guide are for illustrational purposes only. Your components may or may not look exactly the same as drawings shown in this guide.

Note: Refer to Chapter 2 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.