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FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:

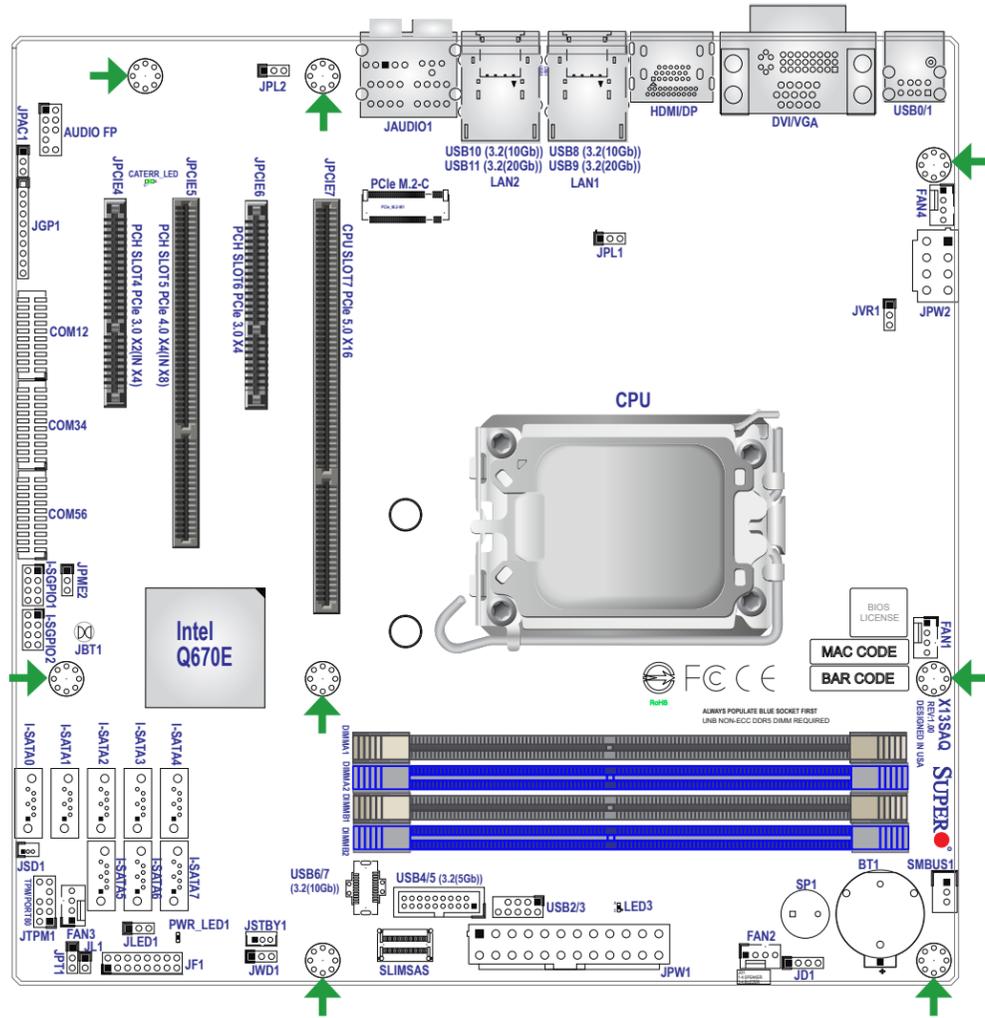
- Manuals: <http://www.supermicro.com/support/manuals>
- Drivers & Utilities: <https://www.supermicro.com/wdl/driver/>
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

- One Supermicro Motherboard
- One Quick Reference Guide
- One I/O Shield
- Eight SATA Cables



Motherboard Layout and Features



Jumpers and Connectors

Jumpers		
Jumper	Description	Default
JBT1	CMOS Clear	Open (Normal)
JPAC1	Audio Enable/Disable	Pins 1-2 (Normal)
JPL1	LAN1 Enable/Disable	Pins 1-2 (Enabled)
JPL2	LAN2 Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Recovery	Pins 1-2 (Normal)
JPT1	Onboard TPM 2.0 Enable/Disable	Pins 1-2 (Enabled)
JWD1	Watchdog Timer	Pins 1-2 (Reset)

Connectors	
Connector	Description
Audio FP	Front Panel Audio Header (Mic-In/Line-Out)
BT1	Onboard Battery
COM12	COM Port (supports RS232/422/485)
COM34, COM56	COM Ports (support RS232)
DVI	Digital Video Interface Port
FAN1 - FAN4	CPU/System Fan Headers (FAN1: CPU Fan)
HDMI/DP	High Definition Multimedia Interface 2.0, DisplayPort
I-SATA0-7	Intel® Serial ATA (SATA 3.0) Ports (6Gb/s) (I-SATA0: SATA DOM)
I-SGPIO1	SGPIO for SATA0-3
I-SGPIO2	SGPIO for SATA4-7
JAUDIO1	HD Audio
JD1	Speaker/Buzzer (Pins 1-4: External Speaker, Pins 3-4: Buzzer)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JL1	Chassis Intrusion Header
JLED1	3-pin Power LED Header
JPCIE4	PCH SLOT4 PCIe 3.0 x2 (IN x4)
JPCIE5	PCH SLOT5 PCIe 4.0 x4 (IN x8)
JPCIE6	PCH SLOT6 PCIe 3.0 x4
JPCIE7	CPU SLOT7 PCIe 5.0 x16
JPW1	24-pin ATX Main Power Connector (Required)
JPW2	+12V 8-pin CPU Power Connector (Required)
JSD1	SATA DOM Power Connector
JSTBY1	Standby Power Header (5V)
JTPM1	Trusted Platform Module/Port 80 Connector
JVR1	VRM Programming Header (Manufacturing Use Only)
LAN1, LAN2	2.5 GbE (RJ45) LAN ports
M.2 SLOT	PCIe 4.0 M-key 2280/22110 Slot
SLIMSAS	PCIe 4.0 x4 SlimSAS Connector
SMBUS1	System Management Bus Header
SP1	Internal Speaker/Buzzer
USB0/1	Back Panel USB 2.0 Ports
US2/3	Front Panel USB 2.0 Header
USB4/5	Front Panel USB Header (3.2 (5Gb))
USB6/7	Front Panel USB Header (3.2 (10Gb))

Connectors and LED Indicators

Connectors		
Connector	Description	
USB8/10	Back Panel USB 3.2 (10Gb) Ports (via Type A)	
USB9/11	Back Panel USB 3.2 (20Gb) Ports (via Type C)	
VGA	VGA Port	

LED Indicators		
LED	Description	Status
CATERR_LED	Catastrophic error LED	Orange: CAT Error
LED3	Standby Power LED	Green: Power On
PWR_LED1	Main Power LED	Solid Green: Power On

CPU Support

The X13SAQ motherboard supports the Intel 12th/13th Generation Core i3/i5/i7/i9, Pentium, and Celeron series processor in an LGA1700 socket.

Memory Support

The motherboard supports up to 128GB of DDR5 UDIMM memory with speeds of up to 4400MT/s with one DIMM, or 4000MT/s with two DIMM single rank, or 3600MT/s with two DIMM dual rank in four memory slots.

DIMM Memory Installation

When installing memory modules, the DIMM slots should be populated in the following order: DIMMB2, DIMMA2, then DIMMB1, DIMMA1.

- It is recommended to use DIMM modules of the same type, size, and speed. Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules. However, for best memory performance, install DIMM modules in pairs to activate memory interleaving.

Recommended Population (Balanced)				
DIMMA1	DIMMB1	DIMMA2	DIMMB2	Total System Memory
		8GB	8GB	16GB
8GB	8GB	8GB	8GB	32GB
		16GB	16GB	32GB
16GB	16GB	16GB	16GB	64GB
		32GB	32GB	64GB
32GB	32GB	32GB	32GB	128GB

Front Control Panel (JF1)

Power Button	1	2	Ground
Reset Button			Ground
X			X
3.3V			OH/Fan Fail LED
3.3V Stby			NIC2 Active LED
3.3V Stby			NIC1 Active LED
3.3V			HDD LED
3.3V Stby			PWR LED
	15	16	

Back Panel I/O Connectors

#	Description	#	Description	#	Description
1.	USB1	7.	LAN1	13.	CEN/LFE Out
2.	USB0	8.	USB8 (3.2) Type A	14.	Surround Out
3.	VGA	9.	USB9 (3.2) Type C	15.	SPDIF Out
4.	DVI	10.	LAN2	16.	Line In
5.	DP	11.	USB10 (3.2) Type A	17.	Line Out
6.	HDMI	12.	USB11 (3.2) Type C	18.	Mic In

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.