SUPERMICRO®
X13SAV-LVDS
Quick Reference Guide 1.0c

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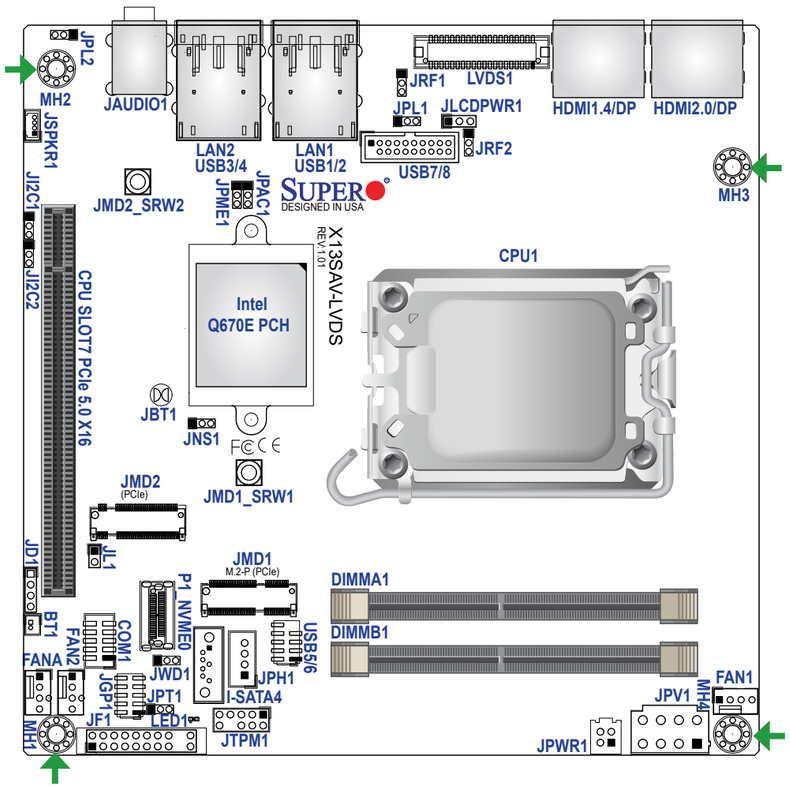
For your system to work properly, please download appropriate drivers/images/user's manual from the links below:
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wdl/driver/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Package Contents
- One Supermicro Motherboard
- One Quick Reference Guide
- One SATA Cable
- One I/O Shield
- One 4-pin ATX Power Signal Cable

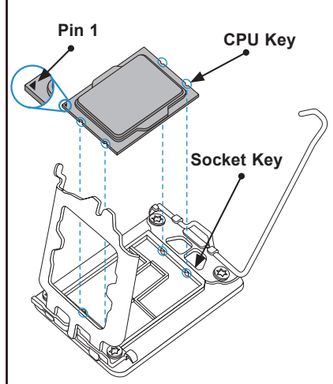
WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Motherboard Layout and Features

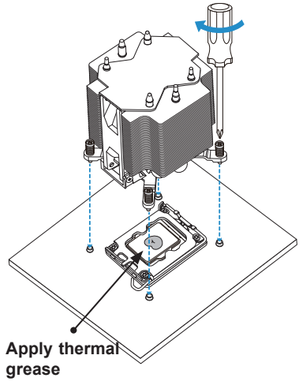


= mounting hole

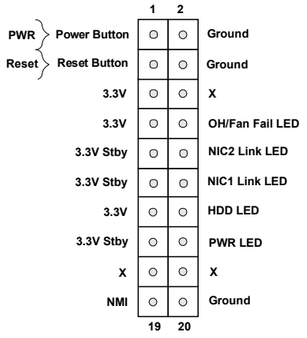
CPU Installation



Heatsink 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.

Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Description	Default Setting (*)
JBT1	CMOS Clear	Open (Normal)
JI²C1, JI²C2	SMB to PCIe Slots Enable/Disable	Pins 2-3 (Disabled)
JLCDPWR1	LVDS Panel VCC Power 3.3/5 V	Pins 1-2 (3.3 V)
JPAC1	Audio Enable	Pins 1-2 (Enabled)
JPL1, JPL2	LAN1/LAN2 Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM Enable/Disable	Pins 1-2 (Enabled)
JRF1, JRF2	Slot7 PCIe Bifurcation	JRF1 / JRF2 / PEG Pins 1-2 / Pins 1-2 / x16* Pins 2-3 / Pins 1-2 / x8x8
JWD1	Watch Dog Timer	Pins 1-2 (Reset)

Connectors

Connector	Description
BT1	CMOS Battery Header
COM1	COM Header (supports RS-232)
FAN1 – FAN2, FANA	Fan Headers
HDMI1.4/DP	High Definition Multimedia Interface 1.4 and DisplayPort
HDMI2.0/DP	High Definition Multimedia Interface 2.0 and DisplayPort
I-SATA4	SATA 3.0 Port
JAUDIO1	Back panel Audio Ports (Line Out/Mic In)
JD1	Speaker Header (Pins 1-4: Buzzer)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JL1	Chassis Intrusion Header
JMD1	M.2 E-Key PCIe 3.0 x1/USB2.0 (2230 form factor)
JMD2	M.2 M-Key PCIe 4.0 x4 (2280 form factor)
JMD1_SRW1 JMD2_SRW2	M.2 Holding Screws
JPCIe1	PCIe 5.0 x16 Expansion Slot
JPH1	4-pin HDD Power Connector
JPV1	8-pin 12 V DC Power Connector for CPU (Required) or alternative single power input for when the 24-pin ATX power is not in use
JPWR1	Header for ATX Power Signal 5 VSTBY/Power ON/Power GOOD/Ground
JSPKR1	Speaker Header (supporting up to 2 W)
JTPM1	Trusted Platform Module/Port 80 Connector
LAN1, LAN2	LAN Ports
LVDS1	Low Voltage Differential Signaling (LVDS) Connector
MH1 – MH4	Mounting Holes
P1_NVME0	I-SATA0/1/2/3 Ports (via OCuLink Connector)
USB1/2, 3/4	Back Panel USB 3.2 Gen2 x1 Ports
USB5/6	Front Accessible USB 2.0 Header
USB7/8	Front Accessible USB 3.2 Gen1 x1 Header

LED Indicators

LED	Description	Status
LED1	Power LED	Solid Green: Power On Blinking Green: S3 Status

Note: Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

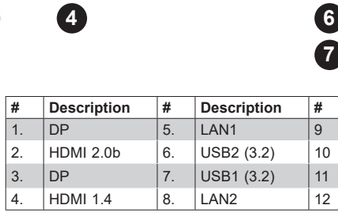
CPU Support

X13SAV-LVDS supports an Intel® 12th/13th Generation Core i9/i7/i5/i3 series, Pentium, and Celeron processors up to 65 W in an LGA1700 socket.

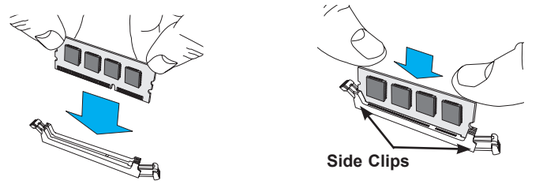
Memory Support

The X13SAV-LVDS supports up to 64 GB of DDR4 3200 MT/s Non-ECC SODIMM in two memory slots.

1. Insert SODIMM modules into slot DIMMA1 and then DIMMB1. Align the key on the bottom of the DIMM module against the receptive point on the memory slot. Take note of the notches on the side of the DIMM module and of the locking clips to avoid causing damage.

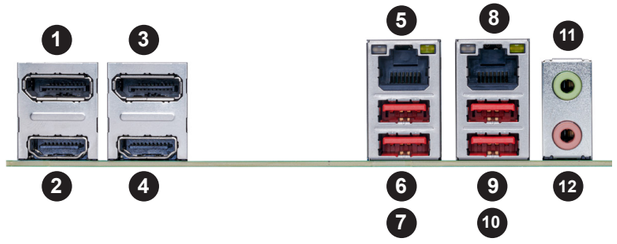


2. Install the SODIMM module straight down into the socket until it is securely seated in the socket. The side clips will automatically lock the module into place.



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

Back Panel I/O Connectors



#	Description	#	Description	#	Description
1.	DP	5.	LAN1	9	USB4 (3.2)
2.	HDMI 2.0b	6.	USB2 (3.2)	10	USB3 (3.2)
3.	DP	7.	USB1 (3.2)	11	LINE OUT
4.	HDMI 1.4	8.	LAN2	12	MIC IN

MNL-2439-QRG-10c