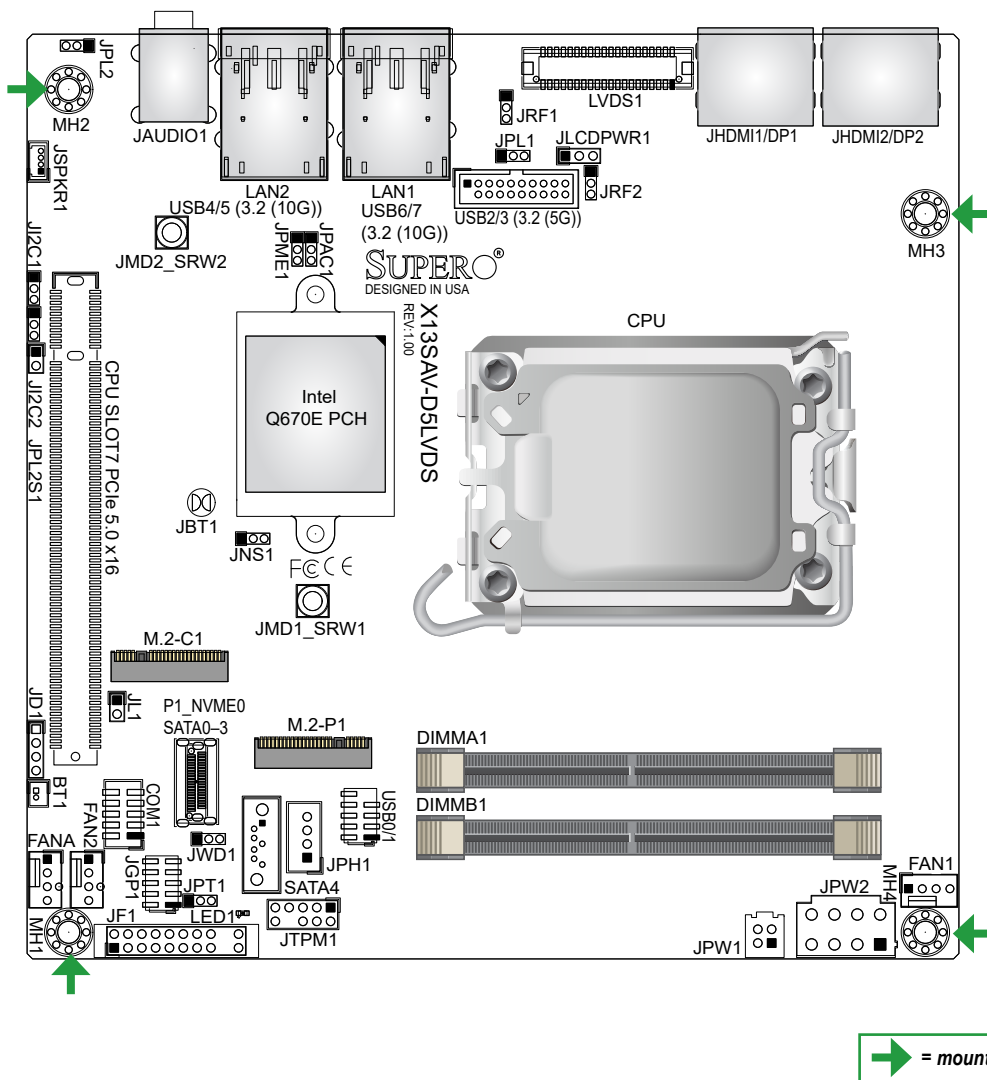


# SUPERMICR® X13SAV-D5LVDS Quick Reference Guide

- Package Contents
- One Supermicro Motherboard
  - One Quick Reference Guide
  - One I/O Shield
  - One SATA 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](http://www.P65Warnings.ca.gov)

## Motherboard Layout and Features



## Jumpers, Connectors, and LED Indicators

Jumpers			
Jumper	Description	Default Setting	
JBT1	CMOS Clear	Open (Normal)	
J1PC1, J1PC2	SMB to PCIe Slots Enable/Disable	Pins 2-3 (Disabled)	
JLCDPWR1	LVDS Panel VCC Power +3.3 V/+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)	
JPL2S1	CPU PL2 Limit	Pins 1-2 (PL2)	
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)	
JPT1	Onboard TPM Enable/Disable	Pins 1-2 (Enabled)	
JRF1, JRF2	Slot7 PCIe Bifurcation	JRF1 Pins 1-2	JRF2 Pins 1-2 PEG x16
JWD1	Watchdog Timer	Pins 1-2 (Reset)	

Connectors	
Connector	Description
BT1	CMOS Battery Header
COM1	COM Header (supports RS-232)
CPU SLOT7	PCIe 5.0 x16 Slot
FAN1-FAN2, FANA	Fan Headers
JAUDIO1	Back panel Audio Ports (Line Out/Mic In)
JD1	Speaker Header (Pins 1-4: Speaker, Pins 3-4: Buzzer)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JHDMI1/DP1	High Definition Multimedia Interface 1.4 and DisplayPort
JHDMI2/DP2	High Definition Multimedia Interface 2.0 and DisplayPort
JL1	Chassis Intrusion Header
JMD1_SRW1	M.2 Holding Screws
JPH1	4-pin HDD Power Connector
JPW1	Header for ATX Power Signal 5 VSTBY/Power ON/Power GOOD/Ground
JPW2	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
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
M2-C1	M.2 M-Key PCIe 4.0 x4 (2280 form factor)
M2-P1	M.2 E-Key PCIe 3.0 x1/USB 2.0 (2230 form factor)
MH1-MH4	Motherboard Mounting Holes
P1_NVME0/SATA0-3	I-SATA0/1/2/3 Ports (via OcuLink Connector)
SATA4	SATA 3.0 Port
USB0/1	Front Accessible USB 2.0 Header
USB2/3 (3.2 (5G))	Front Accessible USB 3.2 Gen 2 x1 (5G) Header
USB4/5, 6/7 (3.2 (10G))	Back Panel USB 3.2 Gen 2 x1 (10G) Ports

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

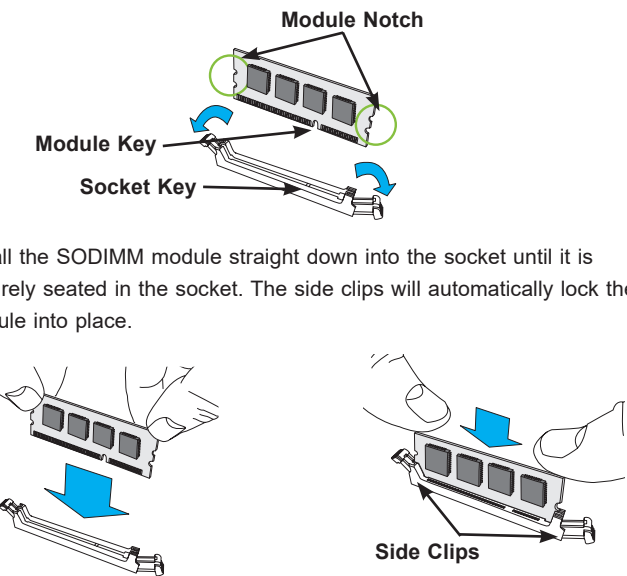
## CPU Support

X13SAV-D5LVDS supports an Intel® 12<sup>th</sup>/13<sup>th</sup>/14<sup>th</sup> Generation Core i Series and Core processors (Series 2) with a TDP of up to 65 W in an LGA 1700 socket.

## Memory Support

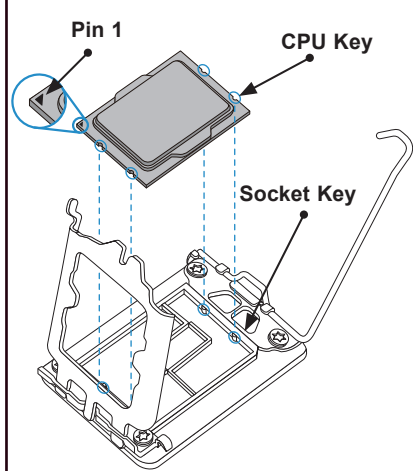
The X13SAV-D5LVDS supports up to 64 GB of DDR5 5600 MT/s Non-ECC SODIMM in two memory slots.

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.

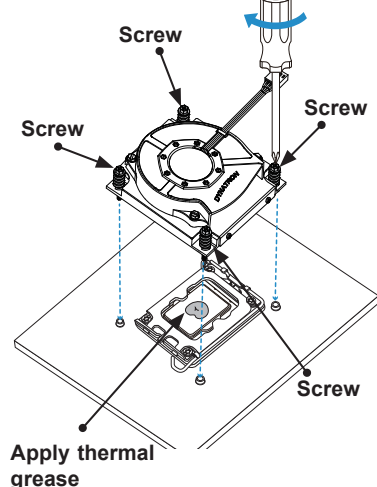


2. Install the SODIMM module straight down into the socket until it is securely seated in the socket. The side clips will automatically lock the module into place.

## CPU Installation



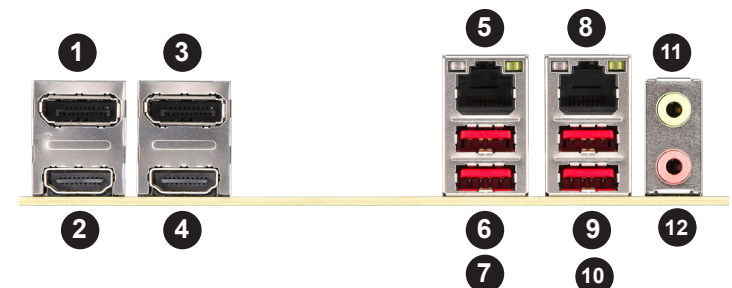
## Heatsink Installation



## Front Control Panel

PWR	Power Button	1	2	Ground
Reset	Reset Button			Ground
	+3.3 V			X
	+3.3 V			OH/Fan Fail LED
	P3V3_DUAL_LAN2			NIC2 Link LED
	P3V3_DUAL_LAN1			NIC1 Link LED
	+3.3 V			HDD LED
	+3.3 V Stby			PWR LED
	X			X
	NMI			Ground
		19	20	

## 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