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FOR YOUR SYSTEM TO WORK PROPERLY, PLEASE DOWNLOAD APPROPRIATE

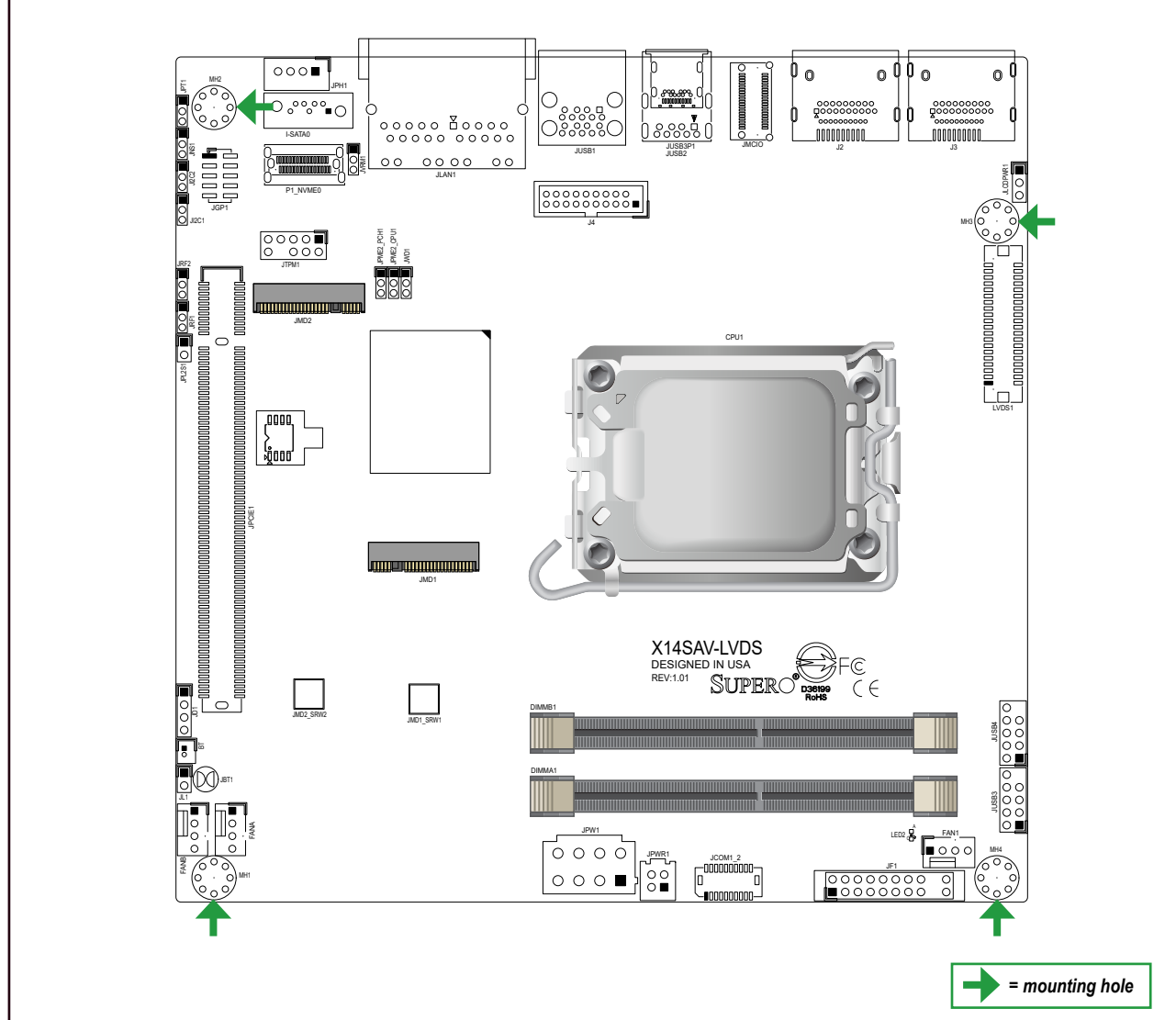
- DRIVERS/IMAGES/USER'S MANUAL FROM THE LINKS BELOW:**
- Manuals: <http://www.supermicro.com/support/manuals>
 - Drivers & Utilities: <https://www.supermicro.com/wdl/driver/>
 - Safety: http://www.supermicro.com/about/policies/safety_information.cfm

PACKAGE CONTENTS

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



Motherboard Layout and Features



Jumpers and Connectors

Jumpers			
Jumper	Description	Default Setting	
JBT1	CMOS Clear	Open (Normal)	
JI2C1, JI2C2	SMB to PCIe Slots Enable/Disable	Pins 2-3 (Disabled)	
JLCDPWR1	LVDS Voltage Selection	Pins 1-2 (+3.3 V) Pins 2-3 (+5 V)	
JPL2S1	CPU PL2 Limit	Pins 1-2 PL2 = PL1	
JPME2_CPU1	ME Manufacturing Mode	Pins 1-2 (Normal)	
JPME2_PCH1	ME Manufacturing Mode	Pins 1-2 (Normal)	
JPT1	Onboard TPM 2.0 Enable/Disable	Pins 1-2 (Enabled)	
JRF1, JRF2	PCIe Bifurcation	JRF1	JRF2
		PEG	PEG
		Pins 2-3	Pins 2-3
		Pins 2-3	Pins 1-2
		x16 (PCIe)	
		2x8 (PCIe)	
JWD1	Watchdog Timer Selection	Pins 1-2 (Trigger Reset)	
		Pins 2-3 (Trigger Event)	

Connectors

Connector	Description
BT1	CMOS Battery
FAN1, FANA, FANB	Fan Headers
J2, J3	Two High Definition Multimedia Interface 2.1 and Two DisplayPort 2.1
I-SATA0	Intel® SATA 3.0 Port
JCOM1_2	COM Header (supports RS232)
JD1	Speaker (Pins 1-4: Speaker)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JL1	Chassis Intrusion Header
JMCIO	Mini Cool Edge I/O connector (PCIe 4.0 x4)
JMD1	M.2 E-Key PCIe 4.0 x1/USB 2.0 (2230 form factor) Slot
JMD2	M.2 M-Key PCIe 5.0 x4 (2280 form factor) Slot
JMD1_SRW1	M.2 Mounting Hole for JMD1
JMD2_SRW2	M.2 Mounting Hole for JMD2
JPCIE1	PCIe 5.0 x16 Slot
JPH1	4-pin HDD Power Connector
JPWR1	Header for ATX Power Signal +5 VSTBY/Power ON/Power GOOD/Ground
JPW1	8-pin ATX +12 V Power Source 8-pin +12 V/+24 V DC Power Source
JTPM1	Trusted Platform Module/Port 80 Connector
JLAN1	Two 2.5G (RJ45) LAN Ports
LVDS1	Low-Voltage Differential Signaling Connector
MH1-MH4	Mounting Holes
P1_NVME0	NVMe (SATA and OcuLink) Connector
JUSB1	USB 3.2 Gen 2 Port
JUSB3P1	USB 3.2 Port and USB Type C (supports USB 3.2 Gen 2x2 20G)
JUSB2	USB 3.2 Gen 2 Port
J4	USB 3.2 Gen 1 Header
JUSB3, JUSB4	USB 2.0 Headers

LED Indicators

LED Indicators		
LED	Description	Status
LED2	Power LED	Solid Green: Power On

Processor Support

The X14SAV-LVDS motherboard supports the Intel Core Ultra 9/7/5 Series 2 processor with a thermal design power of up to 65 W in the LGA 1851 socket.

Memory Support

The motherboard supports up to 96 GB of ECC or Non-ECC DDR5 SODIMM/CSODIMM memory with speeds of up to 6400 MT/s in two memory slots.

The Intel Core Ultra 5 processor supports up to 5600 MT/s. The Intel Core Ultra 7 and 9 processors support up to 6400 MT/s.

DIMM Memory Installation

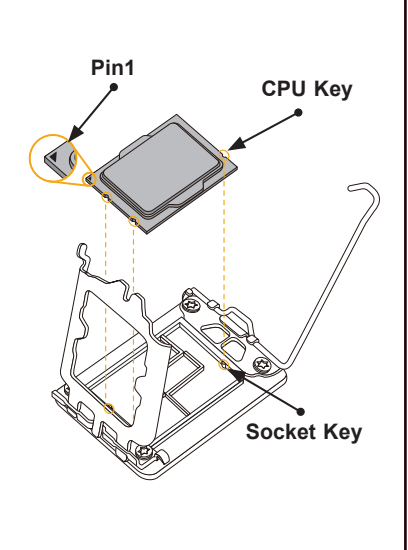
When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1.

- 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.

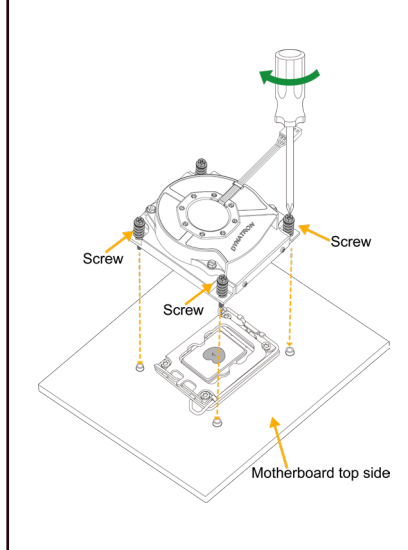
I/O Connectors

#	Description	#	Description
1.	DisplayPort 2.1	6.	USB7 (USB Type-C)
2.	HDMI 2.1	7.	USB4 (3.2)
3.	DisplayPort 2.1	8.	USB5 (3.2)
4.	HDMI 2.1	9.	LAN1
5.	USB6 (3.2)	10.	LAN2

Processor Installation



Heatsink Installation



Front Control Panel (JF1)

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

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

Note: Refer to the Component Installation section of the user manual for detailed information on jumpers, connectors, and LED Indicators.

Note: Refer to the Component Installation section of the user manual for detailed information on memory support and processor/motherboard installation instructions.