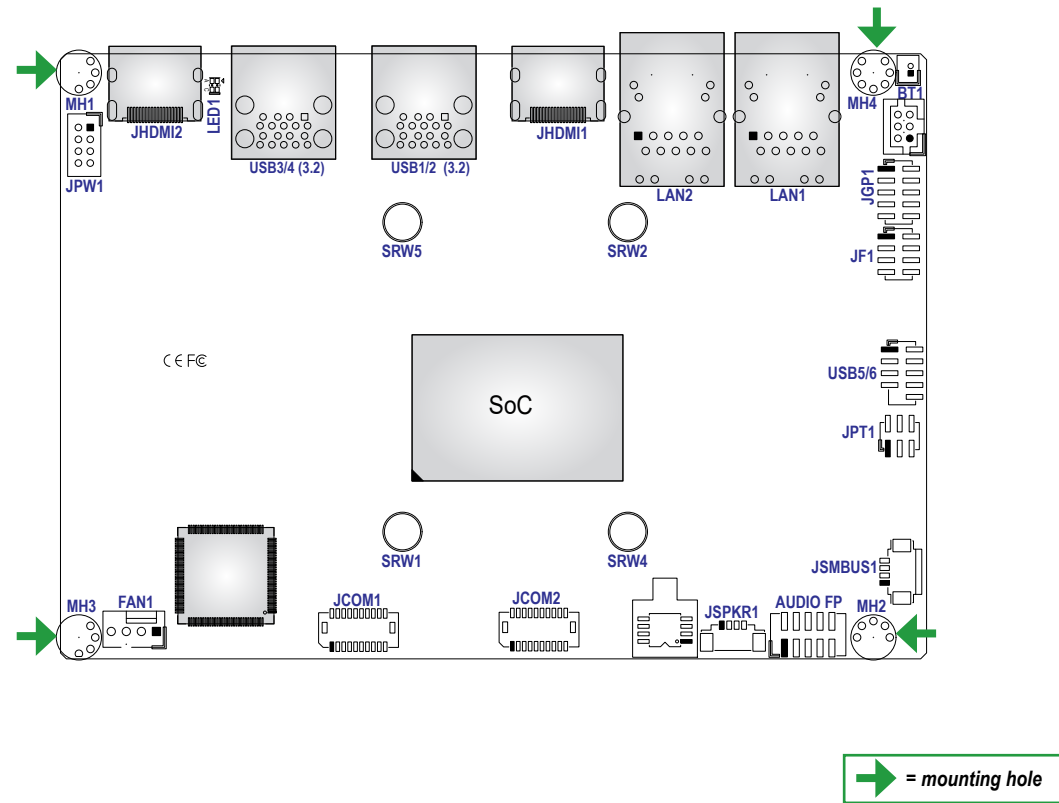
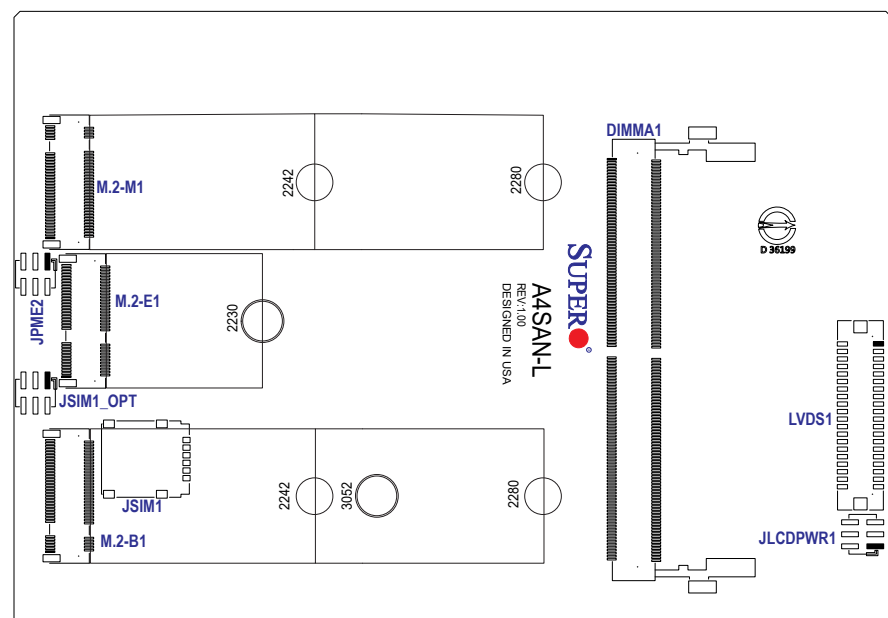


Motherboard Layout and Features

Top Layout



Bottom Layout



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.

Jumpers, Connectors, and LED Indicators

Jumpers

Jumper	Description	Default
JLCDPWR1	LVDS Panel VCC Power 3.3 V/5 V	Pins 1–3 (3.3 V)
JPME2	CMOS Clear ME Manufacturing Mode	Pins 1–3 (Normal) Pins 4–6 (Normal)
JPT1	Force Power On TPM 2.0 Enable/Disable	Pins 2–4 (Force Power On) Pins 1–3 (Enabled)
JSIM_OPT1	USB or PCIe Interface Optional SIM Detect M.2 B-Key Storage LED	Pins 1–3 Short (USB) Pins 2–4 Short (Low Active) Pins 5–6 Enable

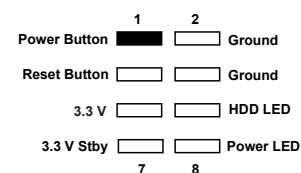
Connectors

Connector	Description
AUDIO FP	Front Panel Audio Header (Line-out, Mic-in)
BT1	CMOS Battery Header
FAN1	Fan Header
JCOM1, JCOM2	JCOM1: COM1/2 header for two RS232/422/485 JCOM2: COM3/4 header for two RS232
JF1	Front Control Panel Header
JHDMI1, JHDMI2	HDMI 1.4b Ports
JGP1	General Purpose I/O Header
JPW1	9 V to 36 V Power-in Connector
JSIM1	Nano SIM Card Slot
JSMBUS1	SMBus or I ² C Header
JSPKR1	Speaker-out with 3 W Amplifier
LAN1, LAN2	2.5G LAN Ports
LVDS1	Low Voltage Differential Signaling (LVDS) Connector
M.2-B1	M.2 B-Key 2242/2280/3052 Slot with Nano SIM and 5G support (PCIe 3.0 x1/SATA 3.0/USB 3.0/USB 2.0)
M.2-E1	M.2 E-Key 2230 Slot (PCIe 3.0 x1/USB 2.0/CNVi)
M.2-M1	M.2 M-Key 2242/2280 Slot (SATA 3.0/PCIe 3.0 x1)
USB1/2, USB3/4	USB 3.2 (10 Gb/s) Type-A ports on the rear I/O panel
USB5/6	USB 2.0 Header

LED Indicators

LED	Description	Status
LED1	Power LED	Green: System On Red: S5 or main power off Off: System off

Front Control Panel (JF1)



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

Processor Support

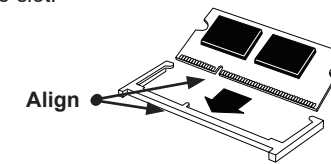
The A4SAN-H/-WOHS supports an Intel® Atom® Processor x7835RE.
 The A4SAN-E/-WOHS supports an Intel Atom Processor x7433RE.
 The A4SAN-L/-WOHS supports an Intel Processor N97.

Memory Support

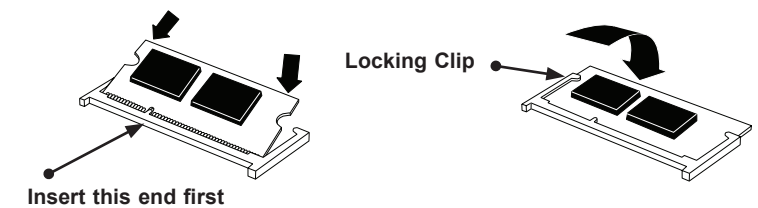
The A4SAN-H/-E/-L/-WOHS motherboard supports up to 16 GB of Non-ECC DDR5 SO-DIMM with speeds of up to 4800 MT/s in one memory slot.

SO-DIMM Memory Installation

1. Position the SO-DIMM module's bottom key so it aligns with the receptive point on the slot.



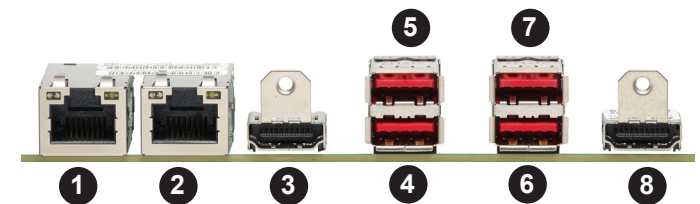
2. Insert the SO-DIMM module vertically at about a 45-degree angle. Press down until the module locks into place. The side clips will automatically secure the SO-DIMM module, locking it into place.



SO-DIMM Memory Uninstallation

1. Push the side clips at the end of the slot to release the SO-DIMM module. Pull the SO-DIMM module up to remove it from the slot.

Rear I/O Ports



#	Definition	#	Description
1	LAN1	5	USB2 (3.2)
2	LAN2	6	USB3 (3.2)
3	JHDMI1	7	USB4 (3.2)
4	USB1 (3.2)	8	JHDMI2

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