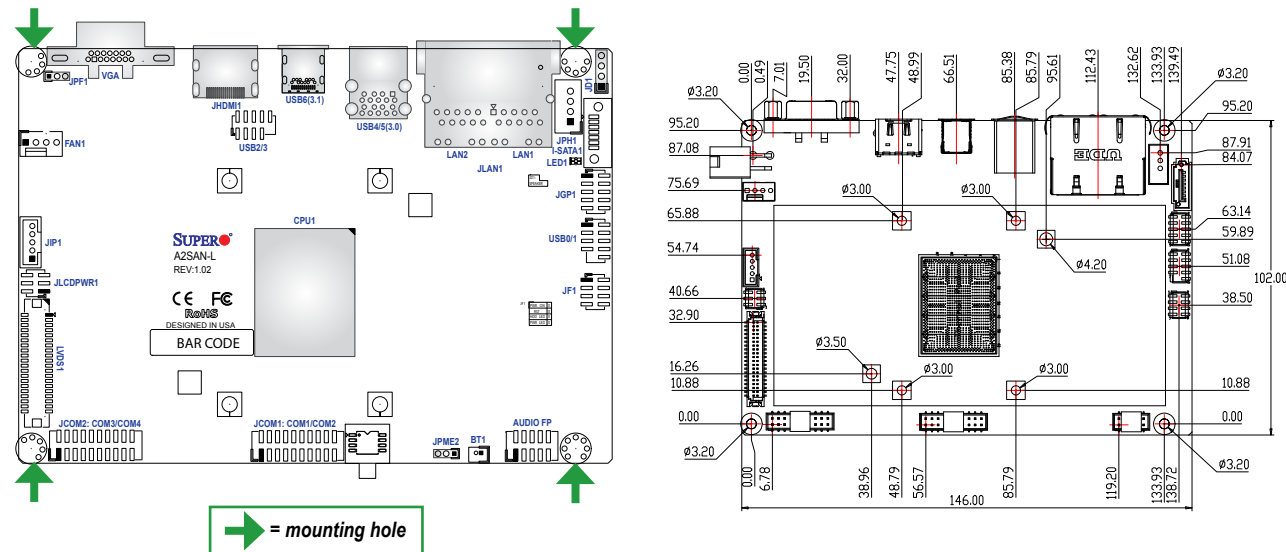
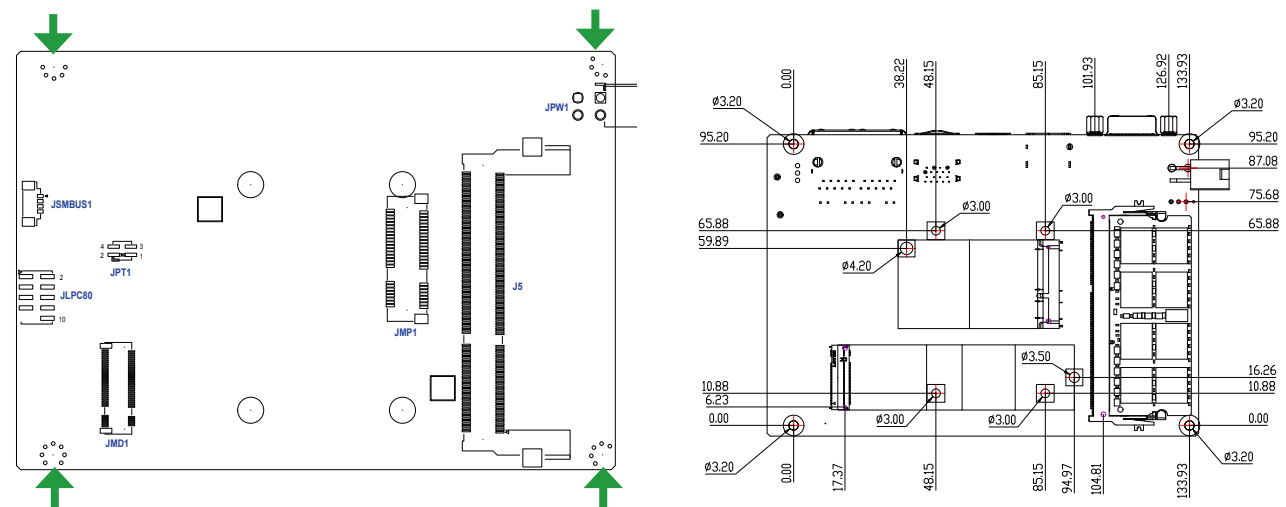


Motherboard Layouts and Mechanical Drawings

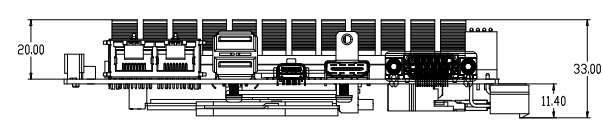
Top Layout and Mechanical Drawing



Bottom Layout and Mechanical Drawing



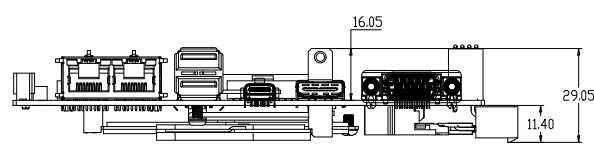
Back Panel I/O With Heatsink (A2SAN-H/-L)



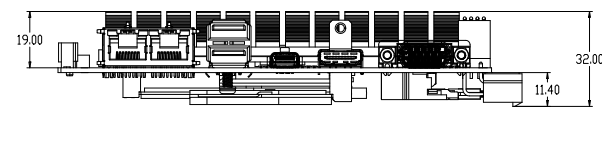
Back Panel I/O With Heatsink (A2SAN-E)



Back Panel I/O Without Heatsink (A2SAN-H/-E/-L-WOHS, X11SAN-WOHS)



Back Panel I/O With Heatsink (X11SAN)



Jumpers, Connectors & LED Indicators

Jumpers

Jumper	Description	Jumper Setting (Default *)
JLCDPWR1	LVDS Panel VCC Power 3.3V/5V/12V	Pins 1-3* (3.3V), Pins 3-5 (5V), Pins 3-4 (12V)
JPF1	Power Force On	Pins 1-2* (Power Force On) Pins 2-3 (PWR BTN Power On)
JPME2	Manufacturing Mode	Pins 1-2* (Normal) Pins 2-3 (Manufacturing Mode)
JPT1	TPM Enable/Disable	JPT1_1N2* (Enable) JPT1_3N4 (Disable)

Connectors

Connector	Description
AUDIO FP	Front Panel Audio Header (Mic In/Line Out)
BT1	Battery Connector (To Clear CMOS, remove the battery, short pins 1-2 and install the battery.)
FAN1	System Fan Header
I-SATA1	Intel PCH SATA 3.0 Port
JCOM1: COM1/COM2	Serial COM Ports
JCOM2: COM3/COM4	(JCOM1 supports RS232/RS422/RS485, JCOM2 supports RS232)
JD1	Speaker Header (Pins 1-4)
JF1	Front Control Panel Header
JGP1	8-bit General Purpose I/O Header
JHDMI1	Back Panel HDMI Port
JIP1	LVDS Inverter Power Header
JLAN1: LAN1, LAN2	LAN (RJ45) Ports
JLPC80	Port 80 Connector (for debugging only)
JMD1	M.2 Slot (B-KEY) (supports PCIe Gen2 X1, SATA or USB 2.0)
JMP1	Mini PCI-E Slot (supports PCIe Gen2 X1 or USB 2.0)
JPH1	SATA Power Connector (for one HDD system)
JPW1	4-pin 12V-Standby R/A Type Power Connector
JSMBUS1	System Management Bus Header
LVDS1	Dual Channel 48-bit LVDS Connector
USB4/5	Back Panel Universal Serial Bus (USB) 3.0 Ports
USB0/1, USB2/3	USB 2.0 Headers
USB6	USB 3.1 Type C Header
VGA	Back Panel VGA Port

LED Indicators

LED	Description	Status
LED1	Power LED (for debugging only)	Solid Green: S0 mode Solid Red: S3/S4/S5 modes

CPU Support

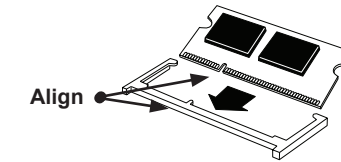
X11SAN and X11SAN-WOHS support Intel® Pentium N4200.
 A2SAN-H/-E and A2SAN-H/-E-WOHS support Intel® Atom E3940.
 A2SAN-L and A2SAN-L-WOHS support Intel® Atom E3930.

Memory Support

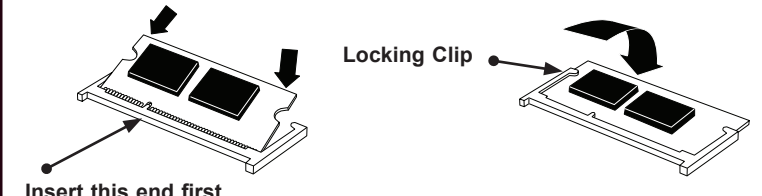
The A2SAN-H/-E/-L and X11SAN motherboard supports up to 8GB of DDR3L 1867MHz Non-ECC SO-DIMM in one memory slot.

SO-DIMM Memory Installation

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



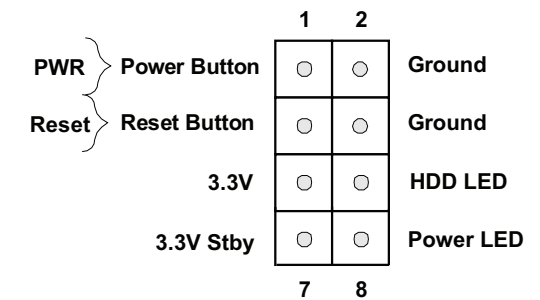
- Insert the SO-DIMM module vertically at about a 45 degree angle. Press down until the module locks into place. The side clips will automatically secure the SO-DIMM module, locking it into place.



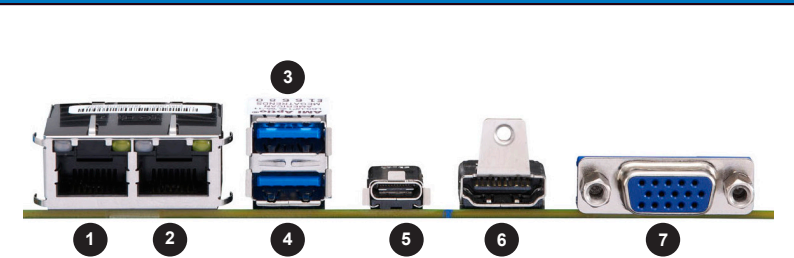
SO-DIMM Removal

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

Front Control Panel (JF1)



Back Panel I/O Connectors



#	Definition	#	Description
1	LAN1	5	USB6 (3.1)
2	LAN2	6	HDMI Port
3	USB5 (3.0)	7	VGA Port
4	USB4 (3.0)		

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.