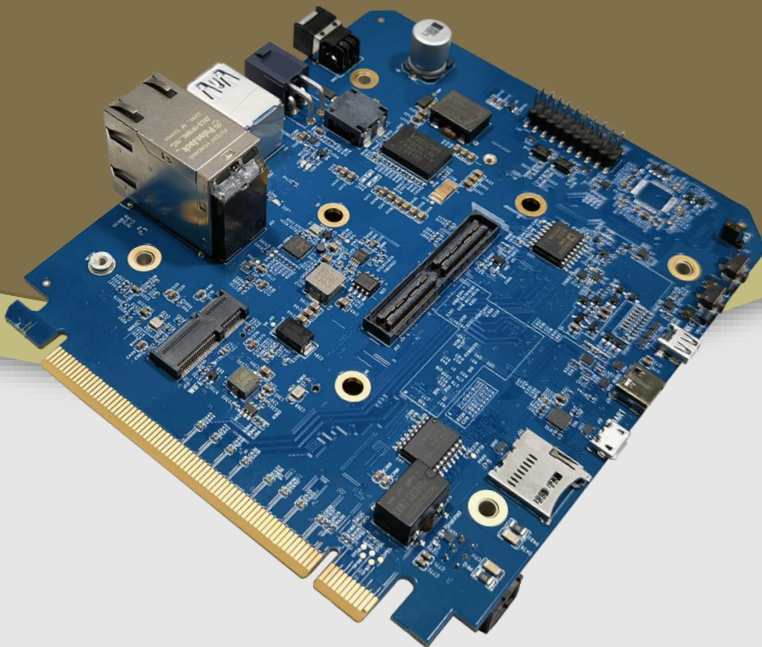




LEOPARD
IMAGING

LI-AGO-CB



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Sales:

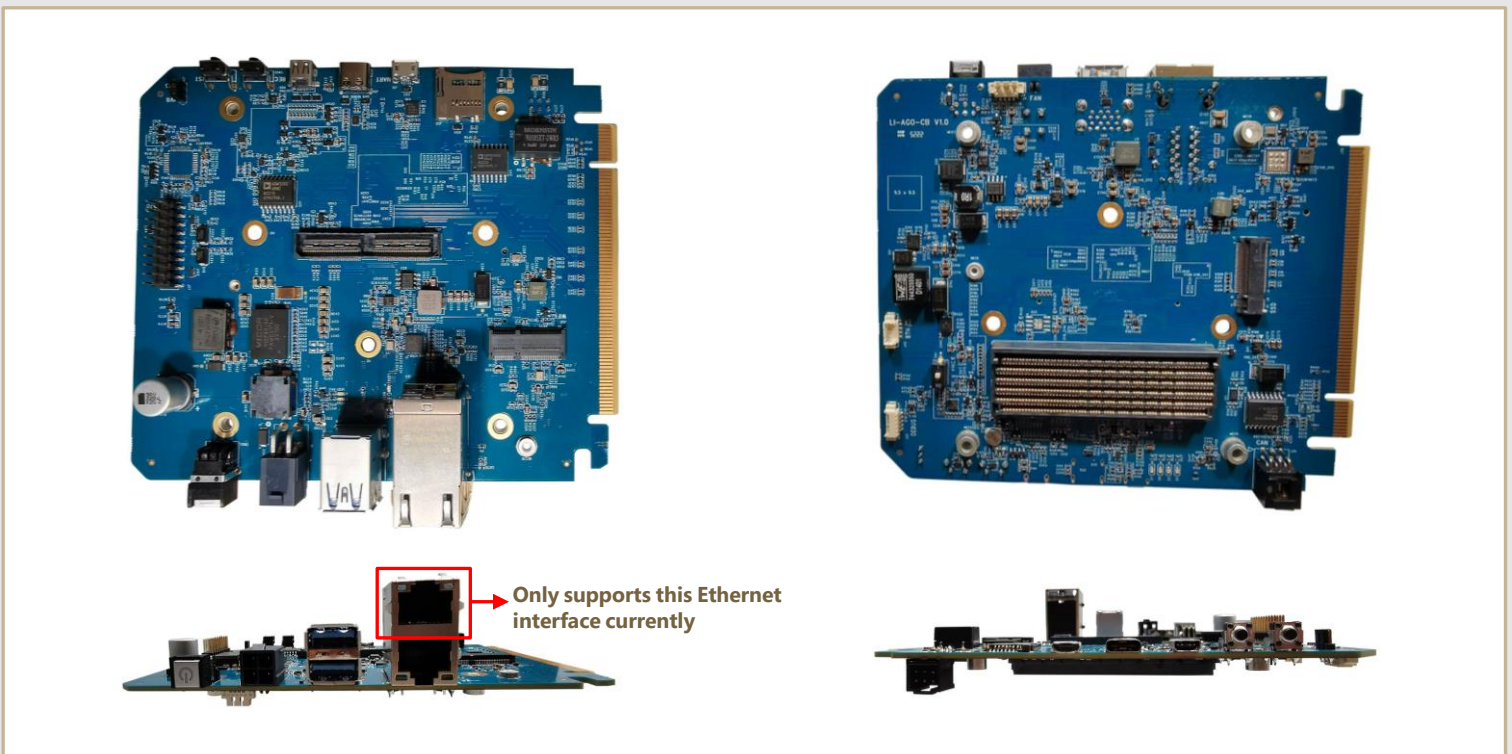
sales@leopardimaging.com

Support:

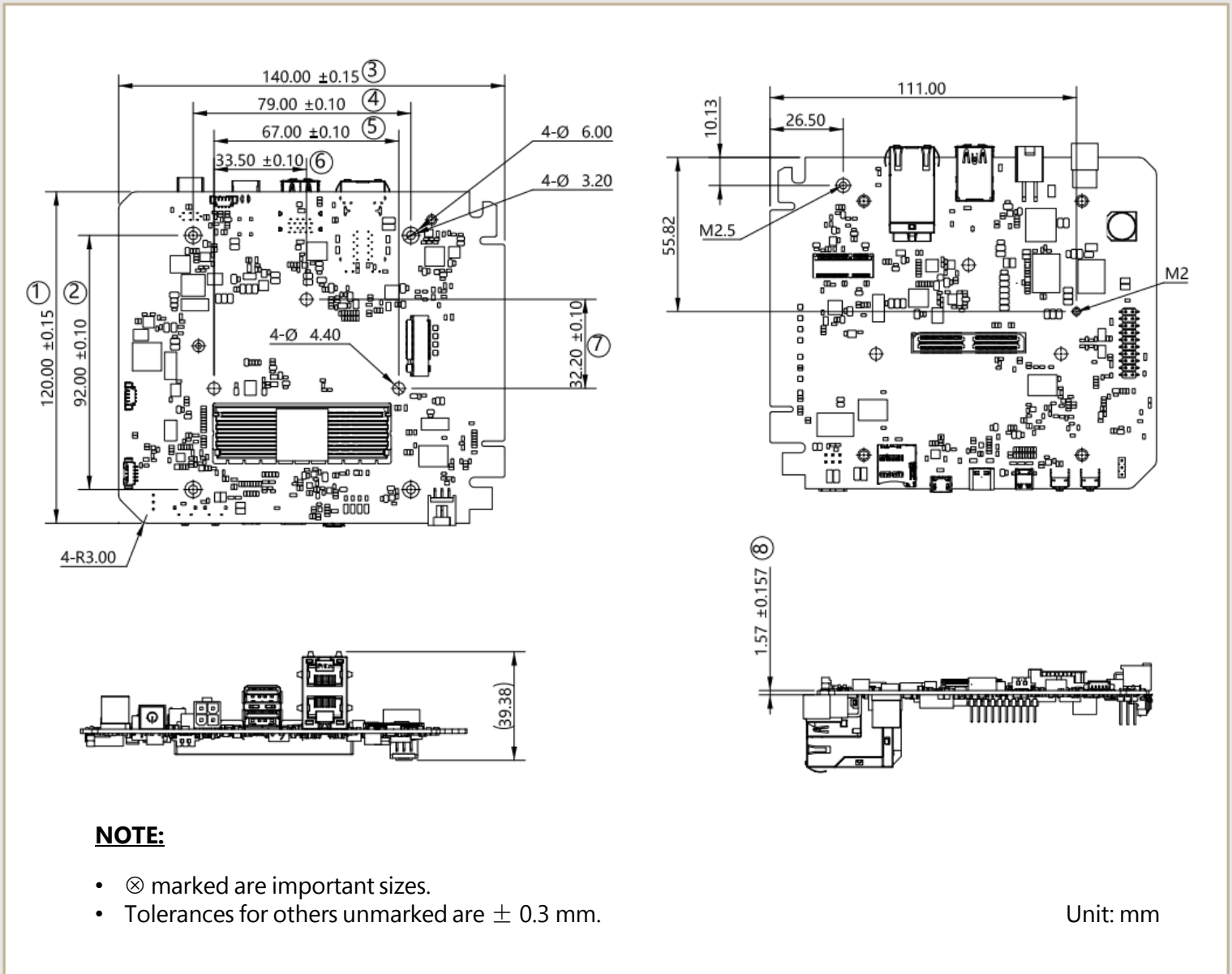
support@leopardimaging.com

TECHNICAL FEATURES

- Carrier board for NVIDIA® Jetson AGX Orin™ SOM
- 1 x Push button power switch
- 1 x Camera adapter board connection interface
- 2 x USB3.0 Type-A interfaces (stacked)
- 1 x USB3.0 Type-C interface
- 2 x RJ45 Gigabit Ethernet interfaces (stacked)
***NOTE:** only the interface at the top could be used currently*
- 1 x M.2 Key E interface for WIFI & Bluetooth
- 1 x M.2 Key M interface for SSD
- 1 x Micro HDMI interface
- 1 x USB 2.0 Micro-B interface (UART to USB20)
- 1 x Micro SD card interface
- 1 x Fan connector (4-pin)
- Operating temperature: -25°C ~ +65°C
- Weight: ~ 154 g
- Part#: **LI-AGO-CB**



DIMENSIONS



NOTE:

- ⊗ marked are important sizes.
- Tolerances for others unmarked are ± 0.3 mm.

Unit: mm

BOM

#	Items	QTY	Unit
1	LI-AGO-CB V1.0	1	Piece
2	19 VDC power supply: 1 x 19V power adapter + 1 x cable adapter NOTE: The cable adapter is for testing only	1	Set
3	USB30 cable A Plug to A Plug for system flash	1	Piece

INTERFACE J56 (Jumper for IO Power)

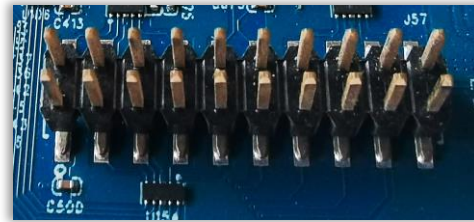
- Part#: M22-2010305
- Number of Positions: 3



Position	IO Power
1-2	1V8 (Default)
2-3	3V3

IO Connector J57

- Part#: M20-8761042
- Number of Positions: 20
- Number of Rows: 2
- Pitch: 2.54 mm
- IO Voltage Level: 1V8 (Default)



NOTE: The level depends on the jumper chosen in above J56

Pin	Definition	To SOM	Pin	Definition	To SOM
1	VDD (1V8 Default)	N/A	2	SOM_GPIO33_3V3	GPIO33
3	SPI1_SCK_3V3	SPI1_CLK	4	SOM_GPIO11_3V3	GPIO11
5	SPI1_MISO_3V3	SPI1_MISO	6	UART7_TX_3V3	HDMI_DP1_TX1_N
7	SPI1_MOSI_3V3	SPI1_MOSI	8	UART7_RX_3V3	HDMI_DP1_TX1_P
9	SPI1_CS_3V3	SPI1_CS0_N	10	RS232_OUT1_TX	UART1_TX
11	I2S2_CLK_3V3	I2S2_CLK	12	RS232_OUT1_RX	UART1_RX
13	I2S2_SDOOUT_3V3	I2S2_DOUT	14	RS232_1_RTS	UART1_RTS
15	I2S2_SDIN_3V3	I2S2_DIN	16	RS232_1_CTS	UART1_CTS
17	I2S2_FS_3V3	I2S2_FS	18	I2C_GP8_CLK_3V3	I2C4_CLK
19	GND	N/A	20	I2C_GP8_DAT_3V3	I2C4_DAT

UART Port J12 (USB2.0 Micro-B)

- USB2.0 UART bridge integrated



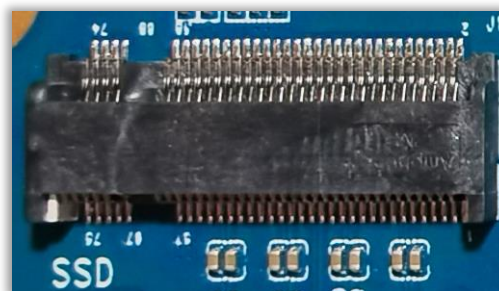
INTERFACE J9 (Fan Header)

- Part#: 0533980471
- Number of Positions: 4
- Number of Rows: 1
- Pitch: 1.25 mm



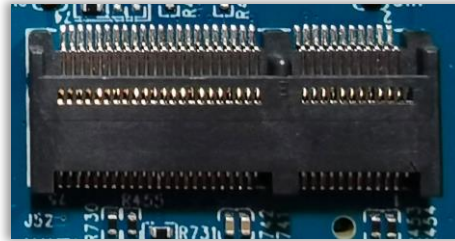
M.2 Key M Connector for SSD

- Part#: MDT275M03001
- Number of Positions: 67
- Number of Rows: 2
- Pitch: 0.50 mm



M.2 Key E Connector for WIFI & Bluetooth

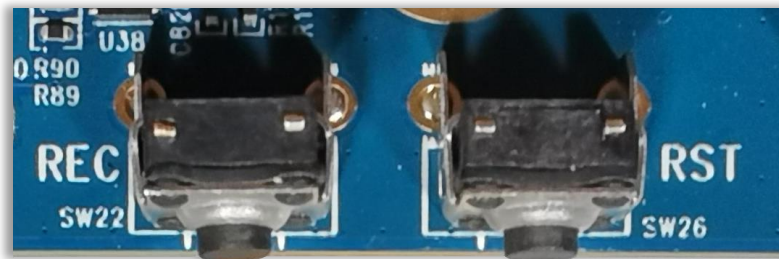
- Part#: 246411067401894E
- Number of Positions: 67
- Number of Rows: 2
- Pitch: 0.50 mm



BUTTONS (Recovery & Reset)

- Part#: 1571610-2

Button	Function
SW22	Recovery
SW26	Reset



BOOT MODE (SW1)

- Part#: A6SN-1104

Status	Boot Mode
On	Auto Mode
Off	Manual Mode



INTERFACE J11 (To AGX Orin SOM)

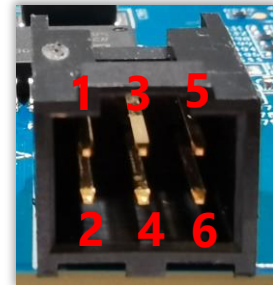
- Part#: 2034560003
- Number of Positions: 699
- Number of Rows: 11



INTERFACE J26 (for CAN)

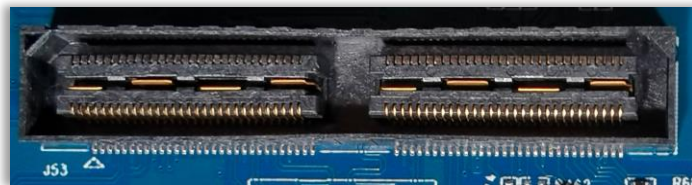
- Part#: 0901303206
- Pin Assignment:

Pin	Definition
Pin 1	GND_CAN
Pin 2	CAN0_H_OUT
Pin 3	CAN0_L_OUT
Pin 4	GND_CAN
Pin 5	CAN1_H_OUT
Pin 6	CAN1_L_OUT



INTERFACE J53 (To Camera Adapter Board)

- Part#: QSH-060-01-H-D-A-K-TR
- Number of Positions: 120
- Number of Rows: 2
- Pitch: 0.5 mm



REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	16 May 2023
1.1	1. Updated technical features and BOM. 2. Replaced schematics of interface J9 and J58 with actual interface pictures.	04 Sep 2023

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