



LEOPARD
IMAGING

LI-THOR-CB



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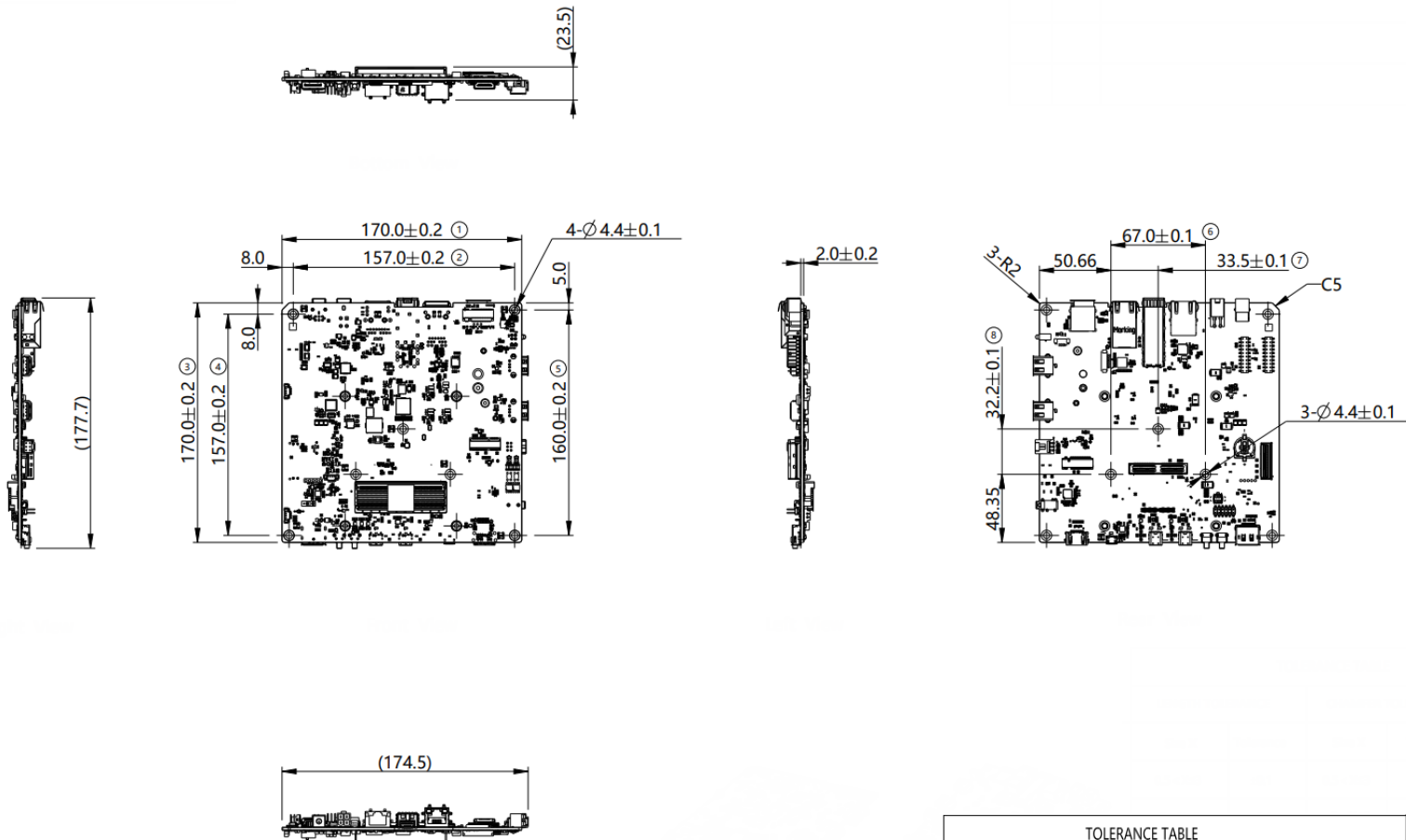
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TECHNICAL FEATURES

- Carrier board for NVIDIA® Jetson Thor SOM
- 1× Camera adapter board interface
- 1× Power button
- 1× Power socket interface
- 1× RJ45 Gigabit Ethernet interface
- 1× RJ45 10G Ethernet interface
- 1× SFP+ interface
- 2× USB2.0 Type-A interfaces
- 1× USB2.0 Micro B interface
- 2× USB3.2 Type-C interface
- 2× GPIO interfaces (20-pin)
- 1× PCIe x4 Connector
- 2× FAN interface (4-pin)
- 1× HDMI v2.1 interface
- 1× DisplayPort 1.4
- 1× Audio 3.5 mm Jack
- 1× Battery socket for RTC
- 1× M.2 Key-E interface for WIFI & Bluetooth
- 1× M.2 Key-M interface for SSD
- 1× M.2 Key-B connector for 5G, with Micro Sim card socket
- STATUS and PWR LED indicators included
- Recovery, RST buttons included
- Power supply range: 12 ~ 30 VDC
 - **Note:** 24 VDC by default.
- Operating Temperature: TBD
- Weight: ~254 g

DIMENSIONS



NOTE:

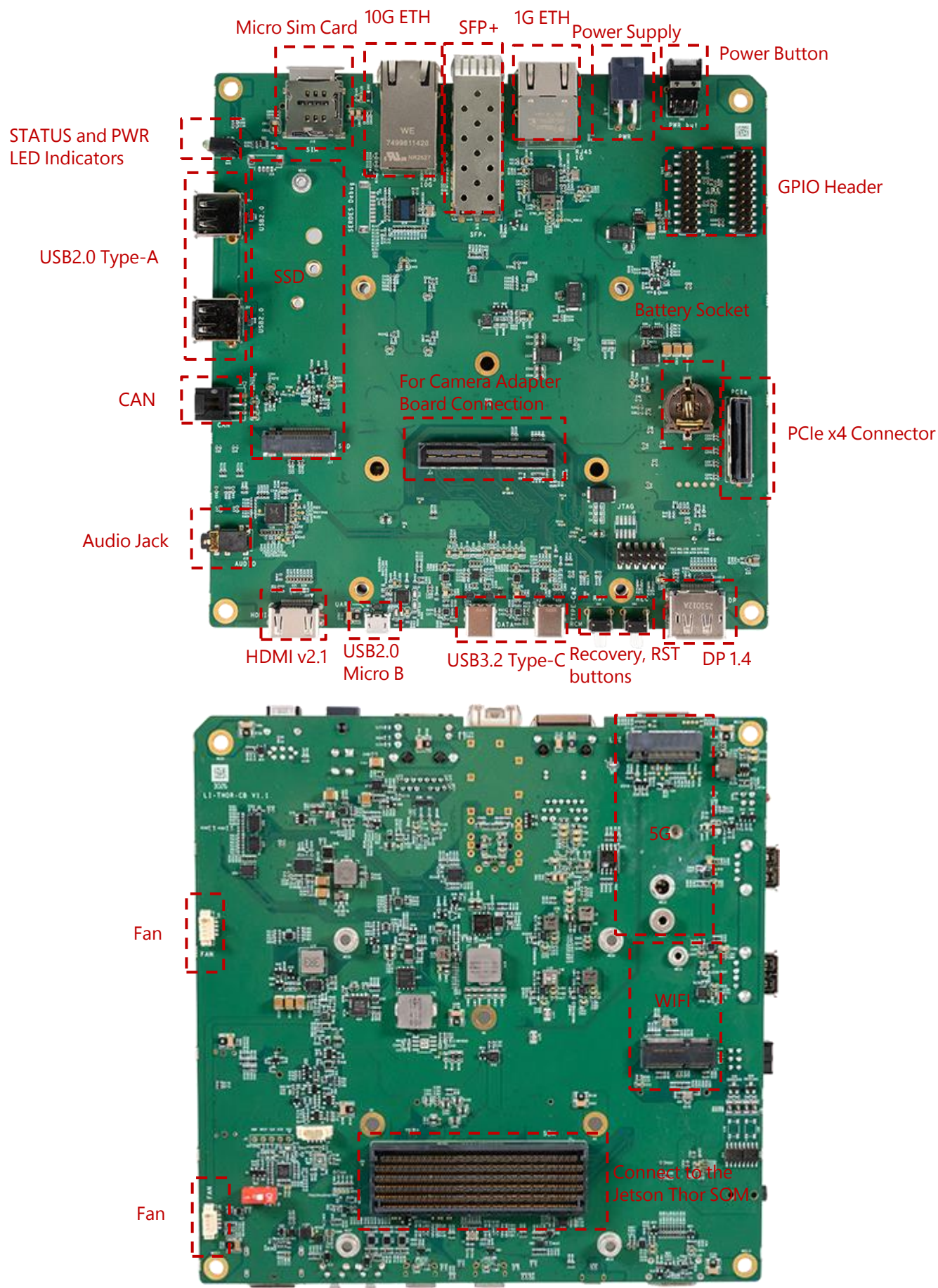
- ⊗ marked are important sizes.
- Tolerances for others unmarked - refer to the Tolerance Table.
- All materials are compliant with RoHS requirements.
- Unit: mm

TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
0.5 < X ≤ 3	±0.1	0.5 < X ≤ 3	±0.2	X ≤ 10	±1°
3 < X ≤ 6	±0.1	3 < X ≤ 6	±0.5	10 < X ≤ 50	±30'
6 < X ≤ 30	±0.2	6 < X ≤ 30	±1	50 < X ≤ 120	±20'
30 < X ≤ 120	±0.3	X > 30	±2	120 < X ≤ 400	±10'
120 < X ≤ 400	±0.5			X > 400	±5'
400 < X ≤ 1000	±0.8				
X > 1000	±1.2				

BOM

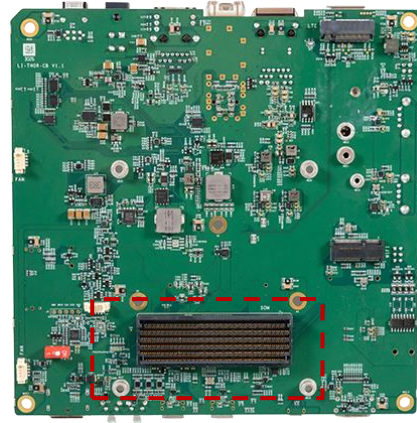
#	Items	QTY	Unit
1	LI-THOR-CB	1	Piece
2	24 VDC power supply: 1 x 24V power adapter + 1 x cable adapter NOTE: The cable adapter is for testing only	1	Set

Connector Summary & Locations



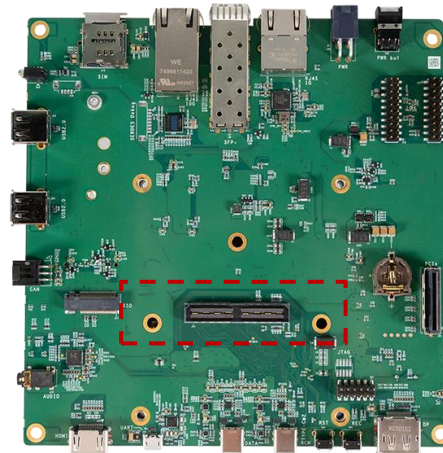
• Interface For Jetson Thor SOM (J1)

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



• MIPI CSI / GMSL2 Extension Interface (J14)

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



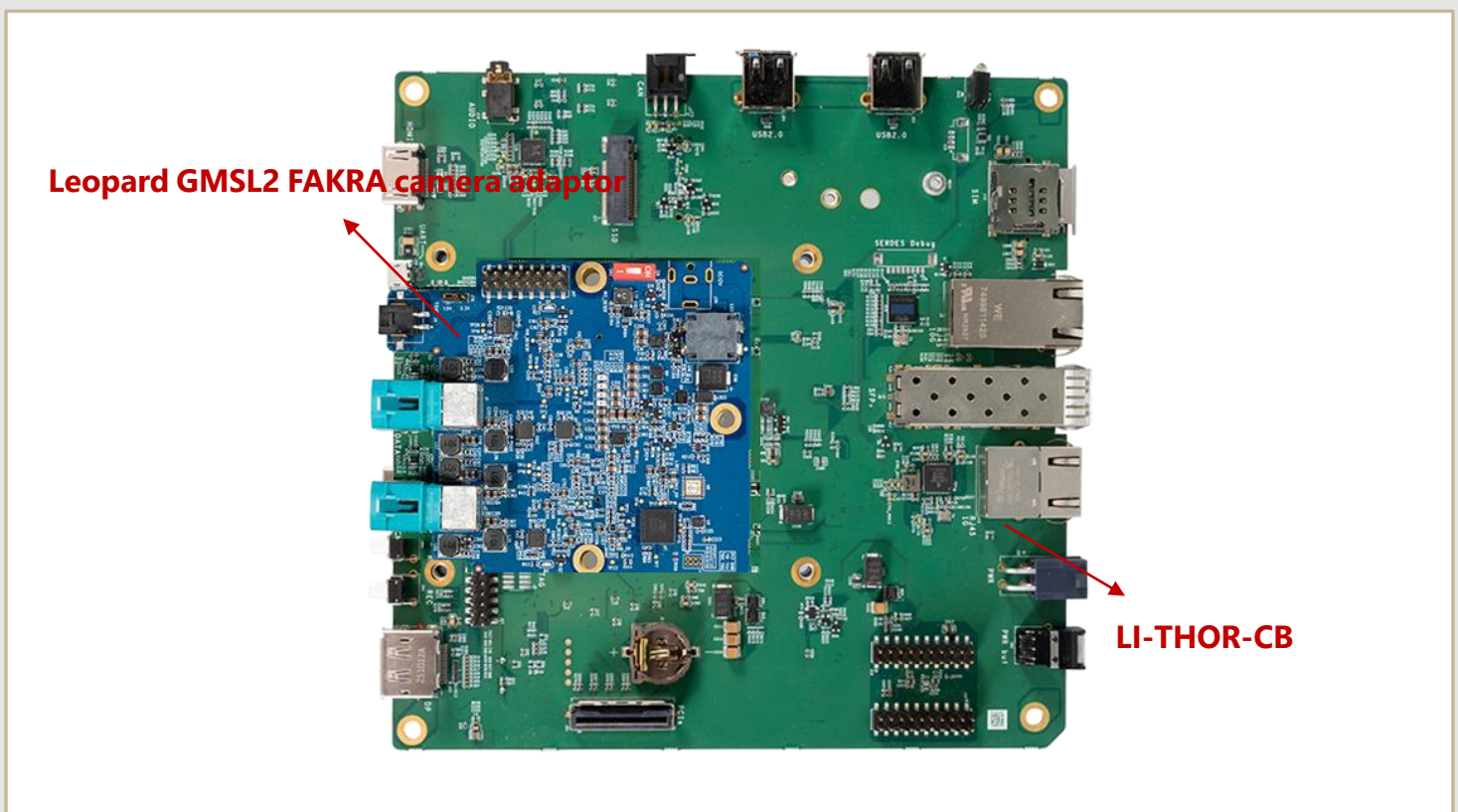
Typical adaptor board connection for Leopard Imaging MIPI cameras

✓ Supports up to 4× Leopard MIPI camera



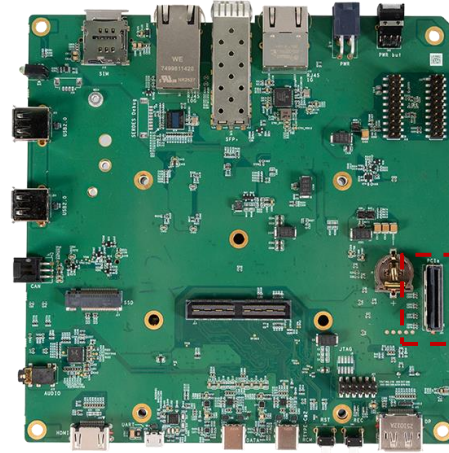
Typical adaptor board connection for leopard Imaging GMSL2 cameras

✓ Supports up to 8× Leopard GMSL2 camera

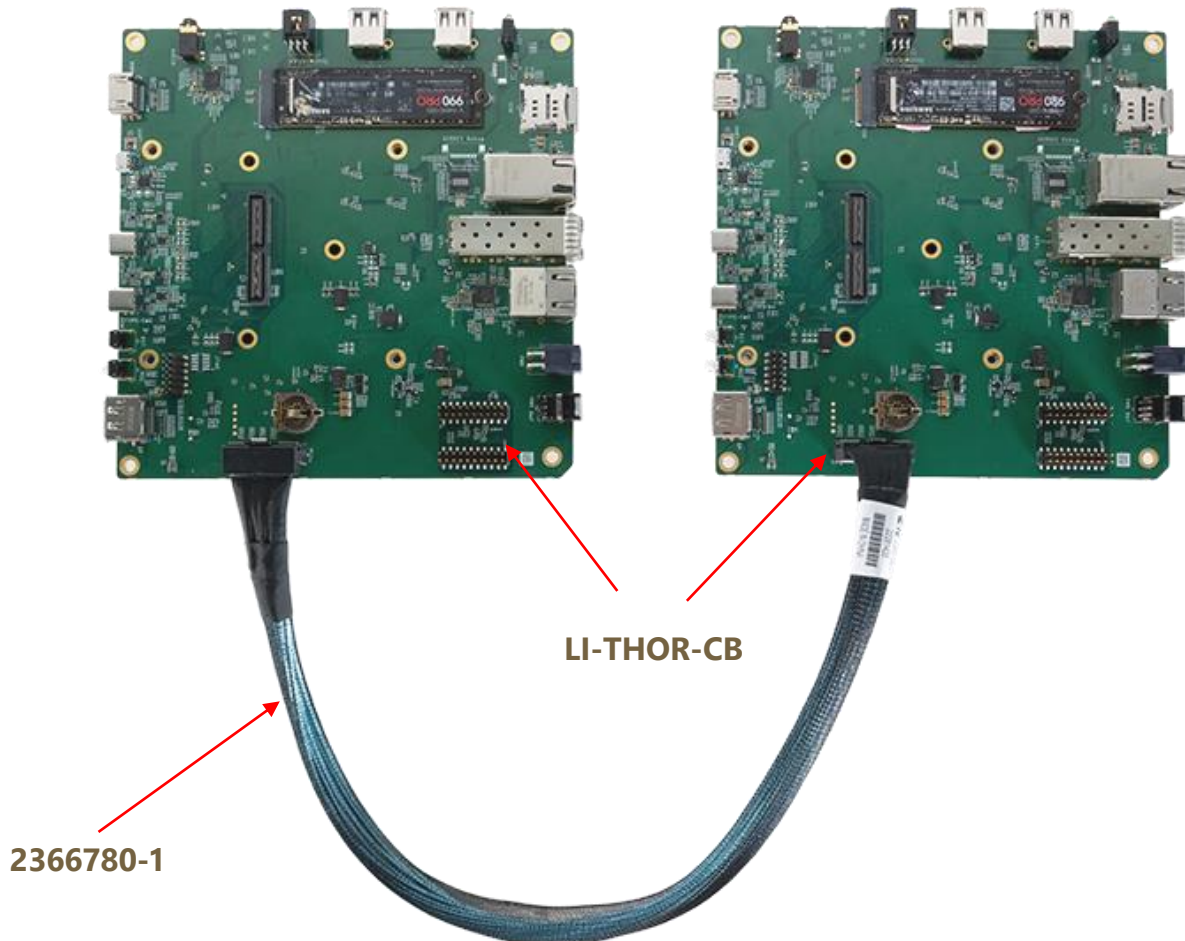


MCIO (Mini Cool Edge I/O) PCIe x4 Connector

- Part#: 2359366-5
- Number of Positions: 74
- Mating cable: 2366780-1
- Protocol: Gen 5 validation is pending;
Gen 4 is fully validated and stable.



Dual THOR Board Interconnect

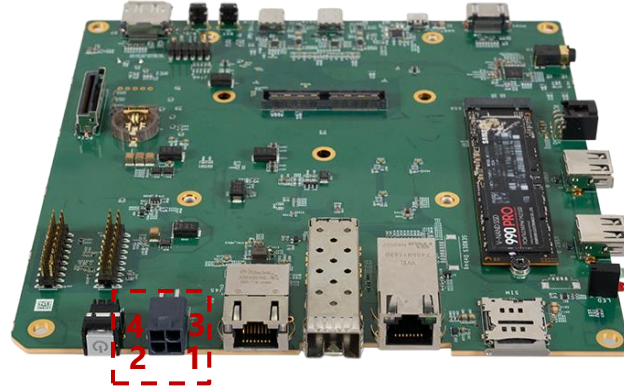


NOTE:

For more details, please refer to the 'LI-THOR-CB_Dual-Thor_Spec'.

Power Supply Interface (J32)

- Part#: 1724480004
 - Number of Positions: 4
 - Power supply range: 12 ~ 30 VDC
- Note:** 24 VDC by default.

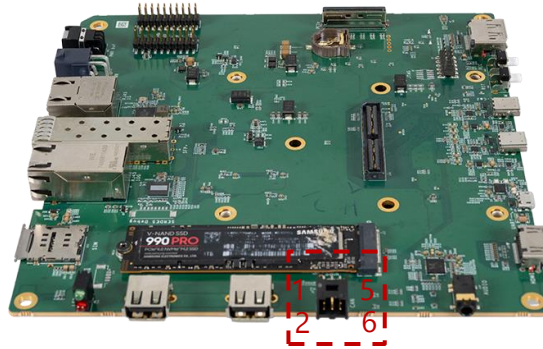


PINOUT

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	VCC	Power supply	Power	12V ~ 30V
2	VCC	Power supply	Power	12V ~ 30V
3	GND	GND	-	-
4	GND	GND	-	-

CAN Interface (J26)

- Part#: 0901303206
- Number of Positions: 6

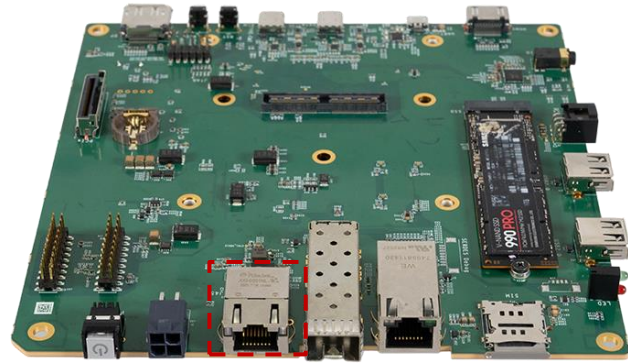


PINOUT

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	VDD5V_ISO	Power supply output	Power	5V
2	CAN0_H_OUT	H signal of CAN0	Bidir	5V
3	CAN0_L_OUT	L signal of CAN0	Bidir	5V
4	GND	GND	-	-
5	CAN1_H_OUT	H signal of CAN1	Bidir	5V
6	CAN1_L_OUT	L signal of CAN1	Bidir	5V

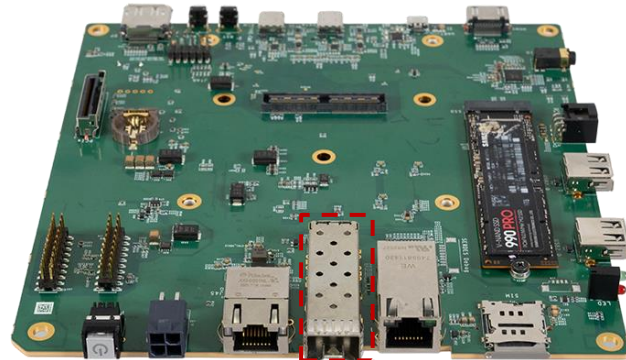
● RJ45 1G Ethernet (J13)

- Part#: J0G-0001NL
- Type: RJ45



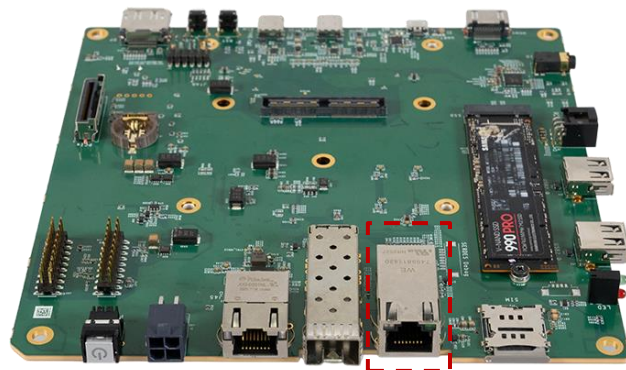
● 10GB SFP+

- Part#: 1888247-1
- Connector Type: SFP+



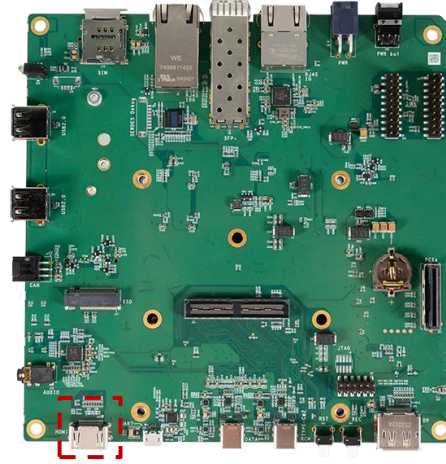
● RJ45 10G Ethernet (J9)

- Part#: 7499811420
- Type: RJ45



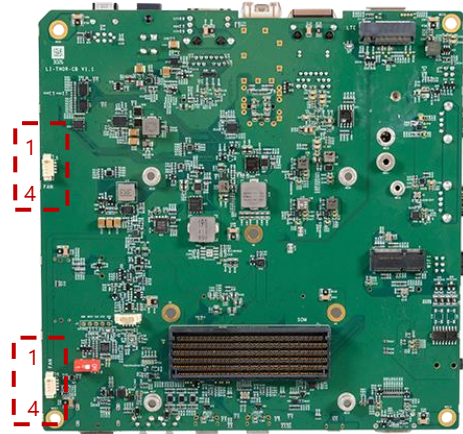
• UART Port J29 (USB2.0 Micro-B)

- USB2.0 UART bridge integrated



• FAN Interface

- Part#: 0533980471
- Number of Positions: 4

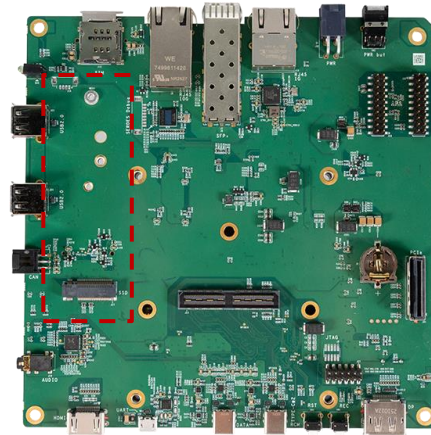


PINOUT

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	GND	GND	Power	GND
2	VDD	Power Supply	Power	12V
3	FAN_TACH	GPIO	Output	1.8V
4	CVM_PWM_FAN	GPIO	Output	12V

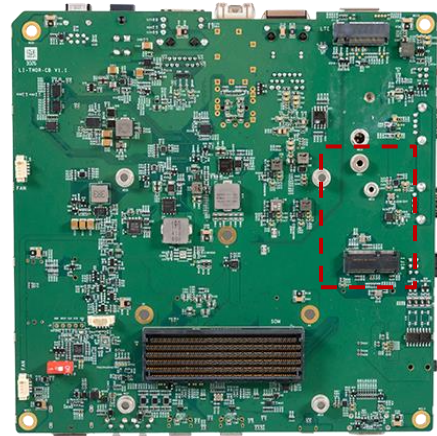
- M.2 Key M Connector for SSD

- Part#: SM3ZS067U310AMR1200
- Number of Positions: 67



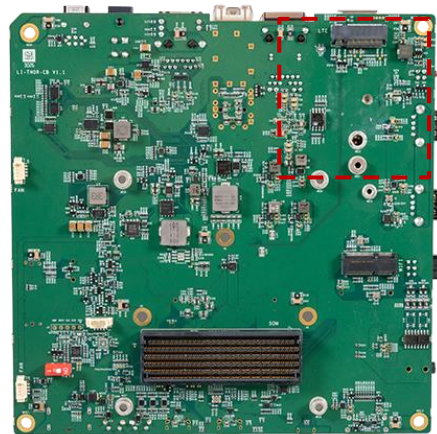
- M.2 Key E Connector for WIFI & Bluetooth

- Part#: 246411067401894E
- Number of Positions: 67



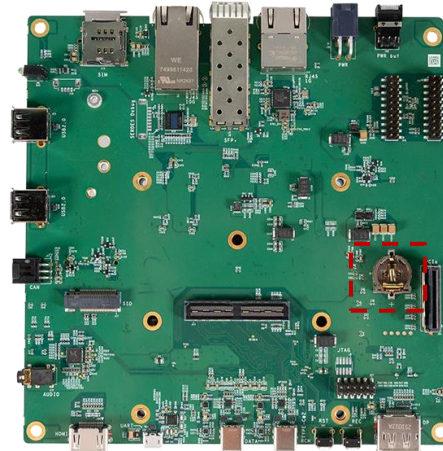
- M.2 Key-B connector for 5G

- Part#: 2199230-3
- Number of Positions: 67



Battery Socket

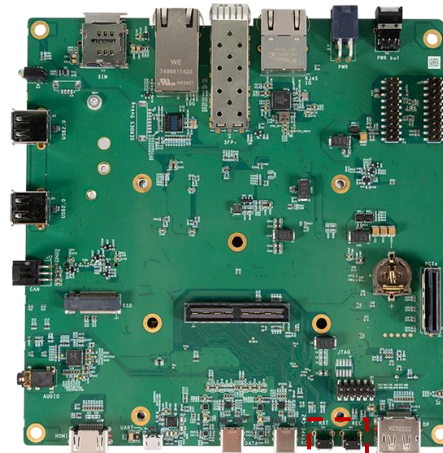
- Function: Used for RTC
- Battery size: CR1220



Buttons (Recovery & Reset)

- Part#: 1-1825027-7

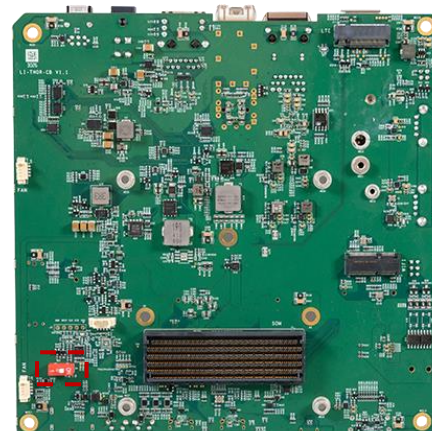
Button	Function
SW4	Recovery
SW3	Reset



BOOT MODE (SW1)

- Part#: ZX-2.54BM-1PZC

Status	Boot Mode
On	Auto Mode
1	Manual Mode



● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	20 Mar 2026
0.2	1. Updated pictures. 2. Added MCIO (Mini Cool Edge I/O) PCIe x4 Connector chapter.	26 Aug 2026

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