



A black, square-shaped industrial computer with a fan on top and various ports on the front. The front panel features two RJ45 ports (labeled 1 and 2), a USB port, a FireWire port, a DVI port, and a VGA port. The top panel has a large circular fan. The device is shown from a three-quarter perspective.



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INTRODUCTION

The LI-THOR-BOX-GM2B consists of NVIDIA Jetson Thor SOM, LI Thor carrier board, and De-Serializer adapter board with ADI GMSL2 MAX96712. This product supports up to 8 GMSL2 cameras which are equipped with ADI GMSL2 MAX9295A/B/D, MAX96717G/F serializers.

KEY FEATURES

- Pre-integrated with NVIDIA Jetson Thor SOM

AI Performance	Sparse: Up to 2070 FP4 TFLOPS 1035 FP8 TFLOPS
	Dense: Up to 1035 FP4 TFLOPS 517 FP8 TFLOPS
GPU Architecture	NVIDIA Blackwell
CUDA Cores	2560
MIG Support	3 GPC, 10 TPC, 2 Instances
CPU	14-Core Arm Neoverse-V3AE @ 2.6GHz
Memory	128GB LPDDR5X
Memory Bandwidth	273 GB/s (256-bit)
PVA	v3.0
Video Encode	6 × 4Kp60 (H.265)
Video Decode	4 × 8Kp30 (H.265)

- Expansion Storage on the carrier board
 - 1 × M.2 Key-M PCIe slot for SSD
- Ethernet: 10/100/1000 BASE-T and 10GBASE-T
- DeSerializer: 2 × ADI MAX96712
- Camera: Supports up to 8 GMSL2 cameras (via 2 × MINI-Quad FAKRA connectors)
- Options for wireless modules
 - WIFI & Bluetooth: Wi-Fi 2.4GHz & 5GHz, BT 5.0
 - Cellular: 4G LTE or 5G NR

INTERFACES

- 2 × MINI-Quad FAKRA Z TYPE connector
- 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
- 1 × FAN interface (4-pin)
- 1 × HDMI v2.1 interface
- 1 × DisplayPort 1.4
- 1 × Audio 3.5 mm Jack
- STATUS and PWR LED indicators included
- Recovery, RST buttons included
- Wireless (optional)
 - 4 × ANT interfaces (SMA)
 - 1 × M.2 Key-E interface for WIFI & Bluetooth
 - 1 × M.2 Key-B connector for 5G, with Micro Sim card socket

NOTE: ANT interfaces are optional by default. Contact sales for customization.

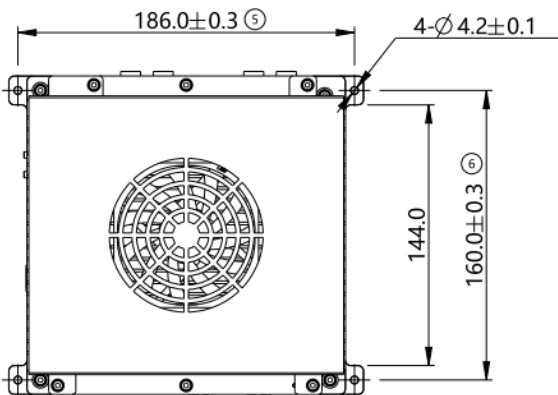
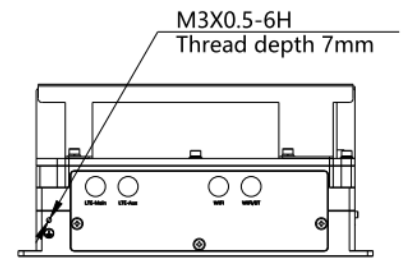
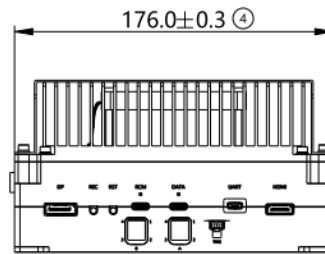
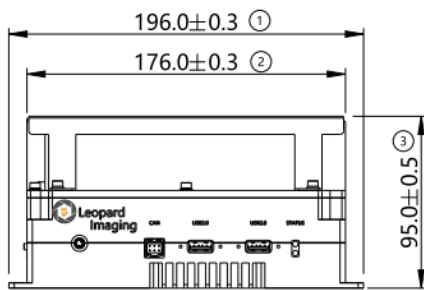
Electrical and Mechanical

- Input power supply range: 12 ~ 30 VDC
 - Note:** 24 VDC by default.
- Power Consumption: TBD
- Operating temperature: TBD
- Weight: ~2.6 kg

BOM

#	Items	QTY	Unit
1	LI-THOR-BOX-GM2B	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

DIMENSIONS

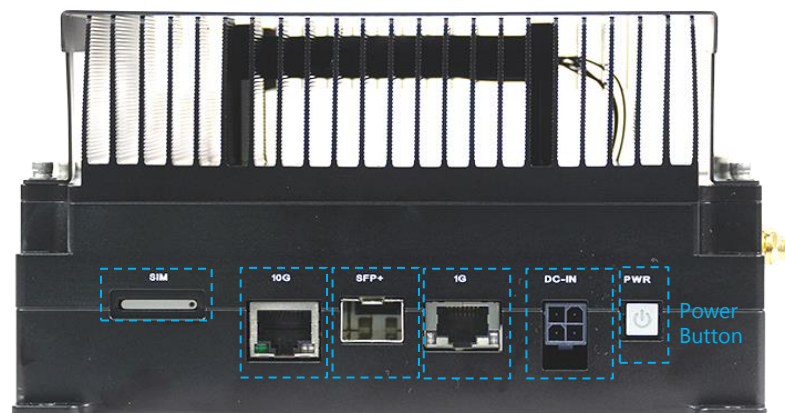
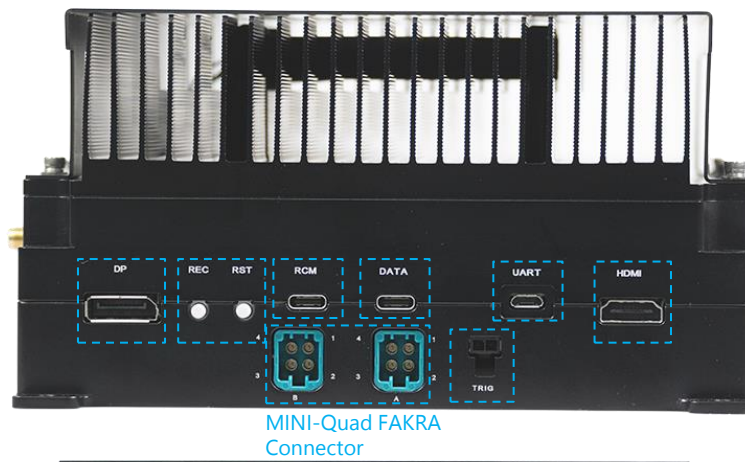
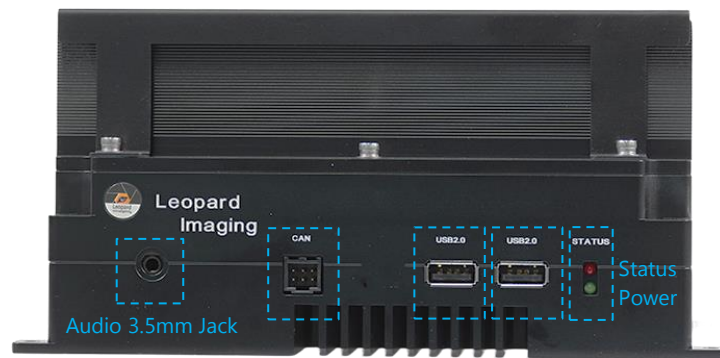


NOTE:

- ⊗ marked are important sizes.
- Tolerances for others unmarked refer to the Tolerance table.
- 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				

Connector Summary & Locations

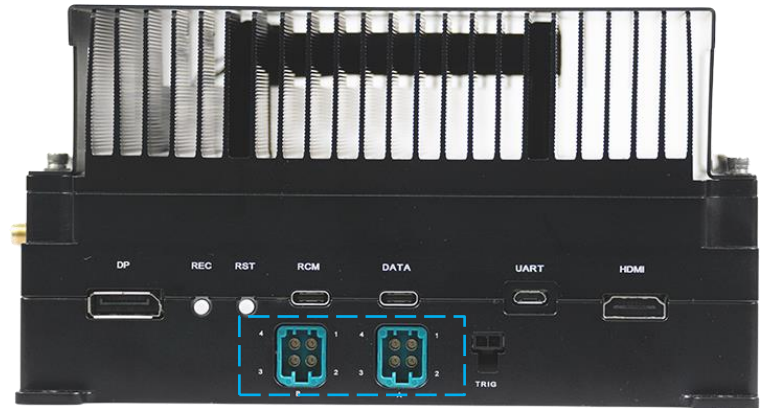


NOTE:

- ANT interfaces are optional by default. Contact sales for customization.

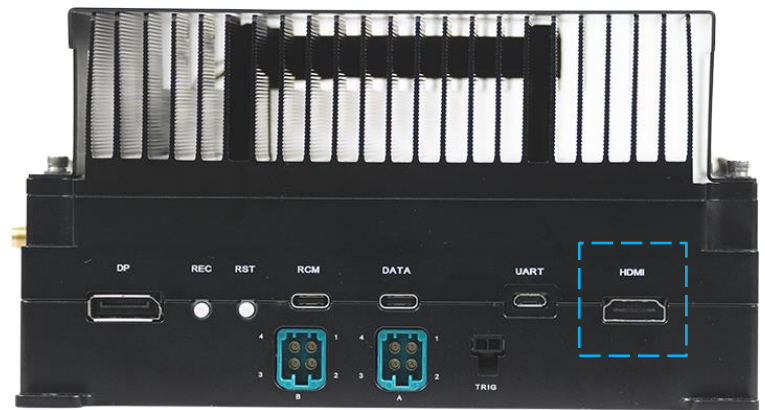
Mini Quad FAKRA Connector

- Part#: 0-2304168-9//2304168-9
- Number of Positions: 4
- Mating Connector Part#: 2298721-9
- Current Rating for each port: 600mA



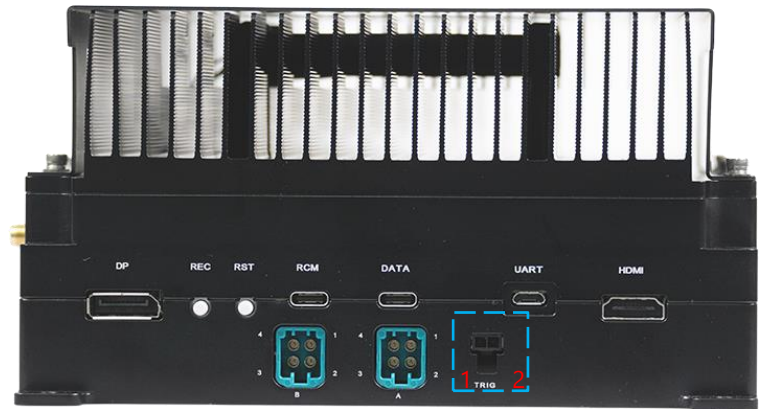
HDMI Video Output

- Type: HDMI v2.1
- Mating Cable : Standard HDMI cable



Trig Interface

- Part#: 2-1445057-2
- Number of Positions: 2
- Function: External trigger input for camera synchronization



Pinout Details

Pin No	Pin Name	Description	Pin Type	Voltage Level
1	TRIG_IN	External Trigger input	Input	3.3V
2	GND_EXT	-	-	-

CAN Interface

- Part#: 0901303206
- Number of Positions: 6
- Type: Isolated CAN

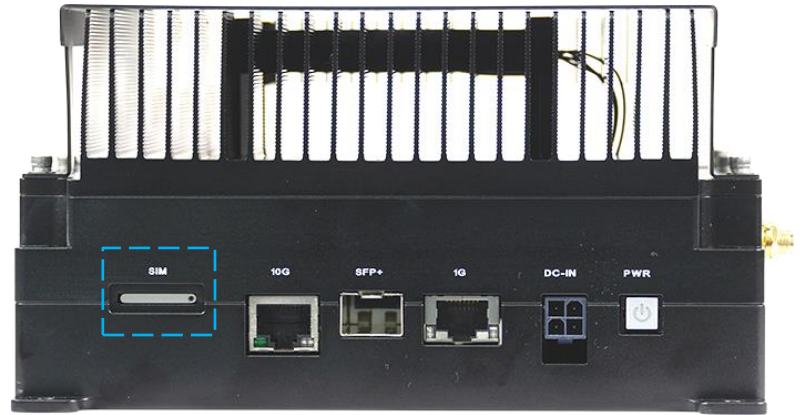


Pinout Details

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

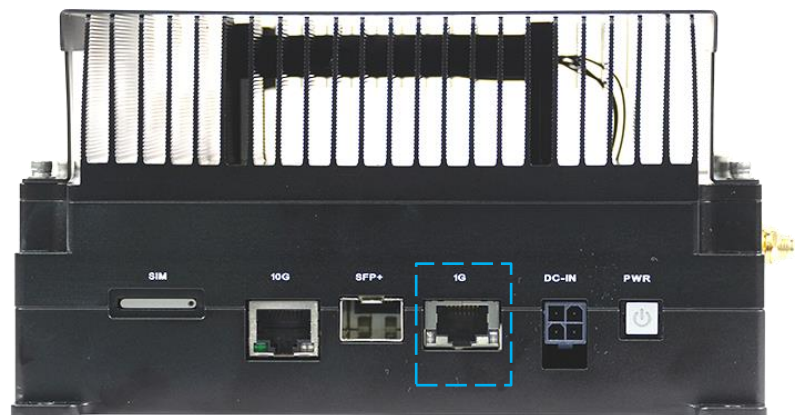
● Micro SIM Card Interface

- Type: Nano SIM card socket



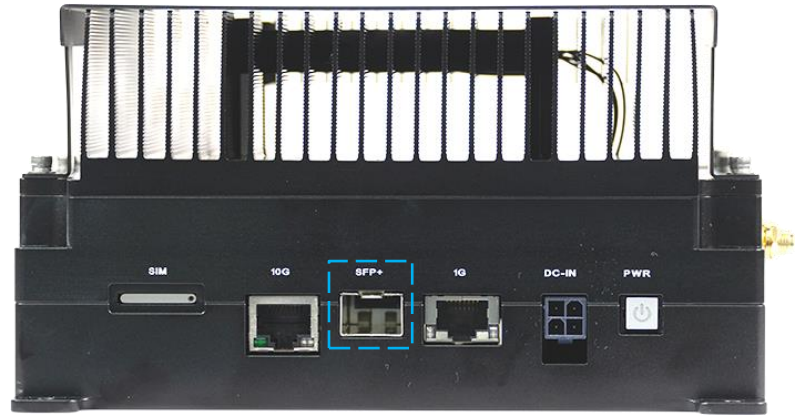
● RJ45 1G Ethernet Interface

- Part#: J0G-0001NL
- Type: RJ45
- Standard: 10/100/1000 BASE-T



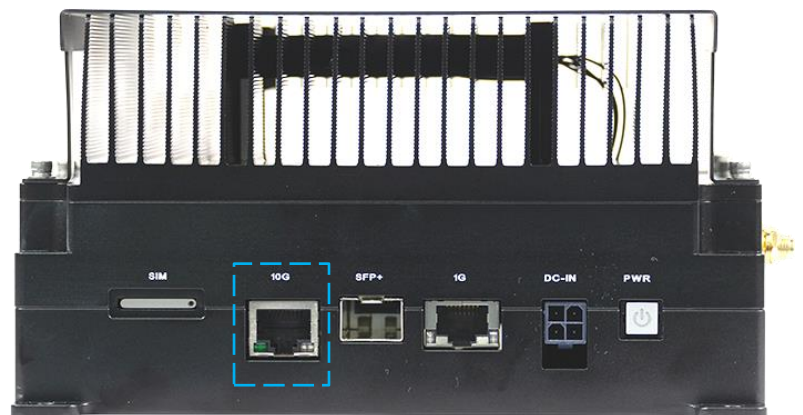
10GB SFP+ Interface

- Connector Type: SFP+
- Standard: 10GBASE-SR/LR (compatible with SFP+ modules)



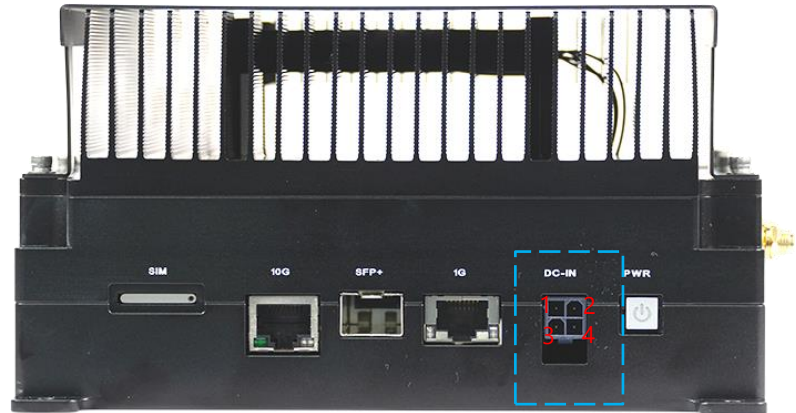
RJ45 10G Ethernet Interface

- Part#: 7499811420
- Type: RJ45
- Standard: 10GBASE-T



Power Supply Interface

- Part#: 1724480004
- Number of Positions: 4

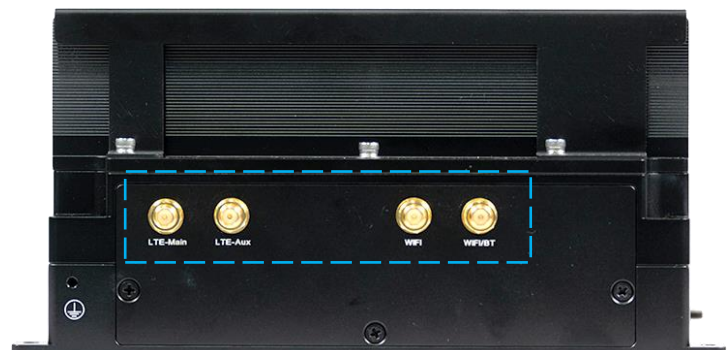


Pinout Details

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

Antenna for Wireless modules (Not used by default)

- Connector Type: SMA
 - Function: Antenna for 5G and WIFI
- Note:** Not used in default configuration.
Contact sales for customization.



- REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	13 Jul 2026

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