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INTRODUCTION

The LI-AGO-BOX-GM2B-8CAM is an embedded AI supercomputer, supporting up to 8 cameras. It includes NVIDIA Jetson 64GB / 32GB AGX ORIN SOM and De-Serializer carrier board with 2x Maxim GMSL2 MAX96712.

KEY FEATURES

- NVIDIA Jetson 64GB / 32GB AGX Orin SOM: Included
 - AI Performance
 - AGO 64GB: 275 TOPS (INT8)
 - AGO 32GB: 200 TOPS (INT8)
 - GPU
 - AGO 64GB: NVIDIA Ampere architecture with 2048 NVIDIA CUDA® cores and 64 tensor cores
 - AGO 32GB: NVIDIA Ampere architecture with 1792 NVIDIA CUDA® cores and 56 tensor cores
 - GPU Max Frequency
 - AGO 64GB: 1.3 GHz AGO 32GB: 930 MHz
 - CPU
 - AGO 64GB: 12x Arm Cortex-A78AE cores | 3 CPU clusters (4 cores/cluster) | 259 SPECint_rate2006
 - AGO 32GB: 8x Arm Cortex-A78AE cores | 2 CPU clusters (4 cores/cluster) | 177 SPECint_rate2006
 - DL Accelerator: 2x NVDLA v2.0
 - DLA Max Frequency
 - AGO 64GB: 1.6 GHz | 52.5 TOPs each (Sparse INT8)
 - AGO 32GB: 1.4 GHz | 46 TOPs each (Sparse INT8)
 - Memory:
 - AGO 64GB: 64GB 256-bit LPDDR5 DRAM
 - AGO 32GB: 32GB 256-bit LPDDR5 DRAM
 - Storage
 - 1 x M.2 PCIe interface with 128GB SSD drive
 - Video Encode: 1x 4K60 | 3x 4K30 | 6x 1080p60 | 12x 1080p30 (H.265) H.264, AV1
 - Video Decode: 1x 8K30 | 2x 4K60 | 4x 4K30 | 9x 1080p60 | 18x 1080p30 (H.265) H.264, VP9, AV1
- Ethernet: 10/100/1000M BASE-T Ethernet
- Options for wireless modules
 1. WIFI & Bluetooth: Wi-Fi 2.4GHZ & 5GHz, BT 5.0
 2. LTE: 4G or 5G
 3. GNSS
- Camera: two Mini Quad FAKRA connectors supporting up to 8 cameras
- DeSerializer: Maxim MAX96712
- Power supply: 12 ~ 19 VDC
- Power Consumption (BOX + 8x FAKRA cameras): ~ 40 W (each FAKRA camera consumption: ~ 1.5 W (20 fps @ 2880 x 1860))
- Weight: ~ 1670 g
- Allows customization

INTERFACES

- Network: 1 x RJ45 Gigabit Ethernet port
- Camera: 2 x Mini Quad FAKRA connectors
- Video output: 1 x HDMI connector
- UART: 1 x USB2.0 Mirco B
- USB Type-C:
 - 1 x USB 3.0 Type-C (data)
 - 1 x USB 2.0 Type-C (flashing port)
- 2 x USB 2.0 Type-A interfaces
- 1 x SIM card socket
- 1 x Power supply socket
- 5 x ANT interfaces (optional)
- Recovery, RST and PWR buttons included

NOTE:

- The ANT interfaces are not used in default.

Environmental

- Operating temperature: TBD
- Storage temperature: TBD
- Storage humidity: TBD
- Vibration: TBD
- Ingress Protection: IP40



Interfaces description

Power supply

DC-IN

- Part#: AC0002-0406-001-H0
- Number of Positions: 4
- Mating Diameter: 2.5 mm ID x 5.5 mm OD
- Power supply range: 12 ~ 19 VDC

Note: 12 VDC by default.



Antenna panel for Wireless modules (Not used in default)

- Connector Type: SMA

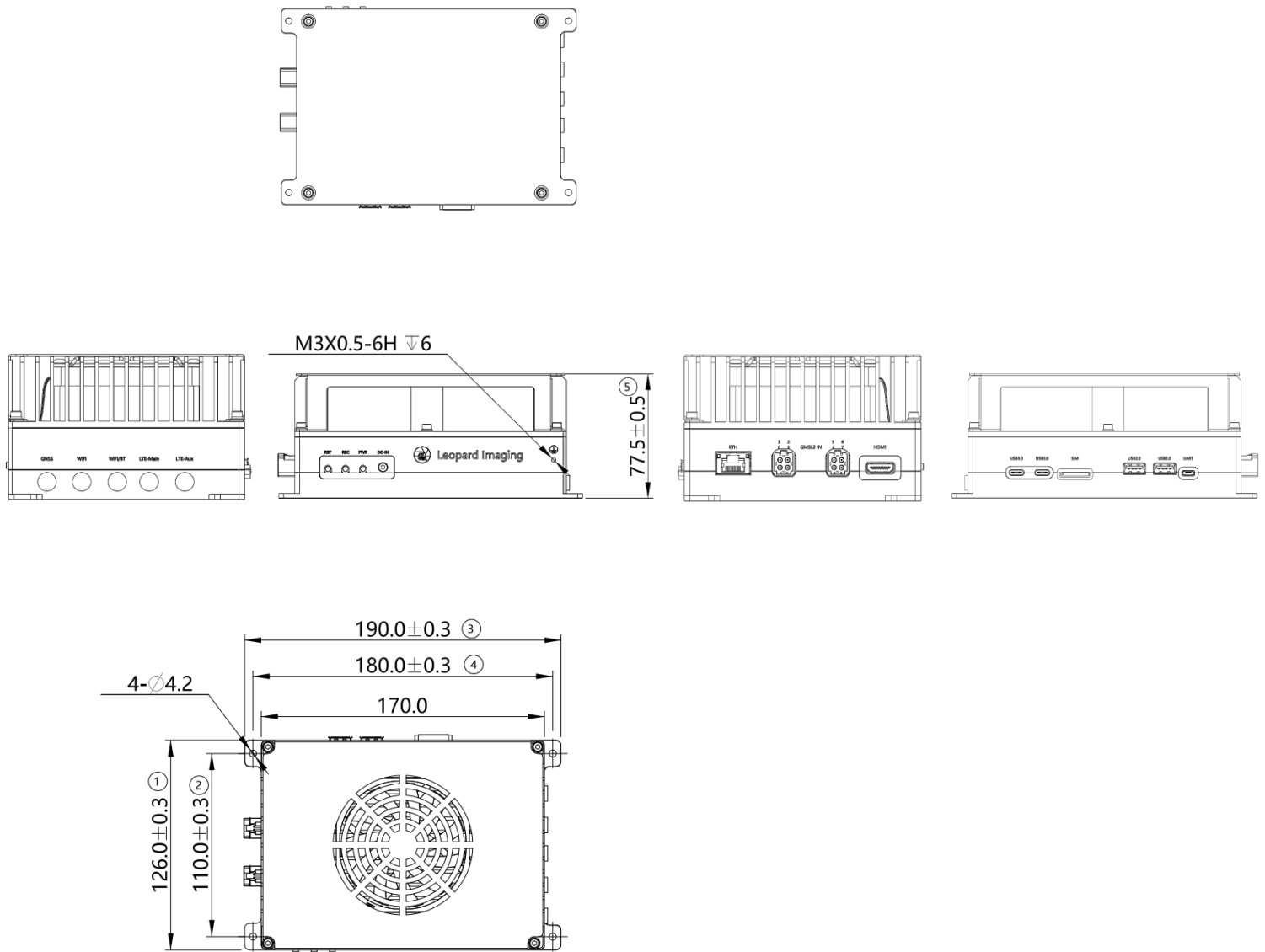


• Mini Quad FAKRA Connector

- Part#: 0-2304168-9//2304168-9
- Number of Positions: 4
- Mating Connector Part#: 2298721-9



DIMENSIONS



NOTE:

- $\otimes$ 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
$0.5 < X \leq 3$	± 0.1	$0.5 < X \leq 3$	± 0.2	$X \leq 10^\circ$	$\pm 1^\circ$
$3 < X \leq 6$	± 0.1	$3 < X \leq 6$	± 0.5	$10 < X \leq 50$	$\pm 30'$
$6 < X \leq 30$	± 0.2	$6 < X \leq 30$	± 1	$50 < X \leq 120$	$\pm 20'$
$30 < X \leq 120$	± 0.3	$X > 30$	± 2	$120 < X \leq 400$	$\pm 10'$
$120 < X \leq 400$	± 0.5			$X > 400$	$\pm 5'$
$400 < X \leq 1000$	± 0.8				
$X > 1000$	± 1.2				

Ordering Information By Default

No	Part#	Description
1	LI-AGO-BOX-GM2B-8CAM-64GB	64GB AGO BOX (no wireless modules included)
2	LI-AGO-BOX-GM2B-8CAM-32GB	32GB AGO BOX (no wireless modules included)

Ordering Information For Options

Part#: **LI-AGO-BOX-GM2B-8CAM-X-Y**

AGX Orin SOM memory

- 64GB
- 32GB

Options for wireless modules

A: LTE-Main, 4G

B: LTE-Aux, 5G

C: GNSS,GPS

D: WIFI/BT, BT 5.0

NOTE:

The options for wireless modules can be combined freely. If you need, please contact sales.

BOM By Default

#	Items	Part Number	QTY	Unit
1	AGO BOX	LI-AGO-BOX-GM2B-8CAM-X	1	Set
2	Power Supply Accessories (for test only)	• 1 x 12V power adapter • 1 x cable adapter	1	Set

NOTE:

1. The 4-to-1 cable is not included. You can purchase via the following address:
<https://www.leopardimaging.com/product/accessories/cables/li-fcb-4t1-ss-2m-np-t1/>

● Certification & Compliance

Certificates	 CE and FCC certifications render assurance about safety, protection and product quality.
CB Test Report	Tested and passed in accordance with IEC 62368-1:2023

NOTE: CE/FCC certificates apply to base version only. For configurations with wireless options (A/B/C/D or combinations), certification status is TBD. Contact sales for details.

● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	30 Jun 2025
0.2	Updated pictures,	23 Sep 2025
0.3	Updated the power supply description.	06 Jan 2026
0.4	Added certification & compliance.	15 Jul 2026

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