



LEOPARD
IMAGING

LI-AGX-BOX-GM2B



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INTRODUCTION

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

KEY FEATURES

- NVIDIA Jetson AGX Xavier SOM: included
- CPU: NVIDIA Carmel ARMv8.2 (4 x dual-core) @ (8MB L2 + 4MB L3) (up to 2.26GHz operating frequency per core)
- GPU: 512-core Volta @ 64 Tensor Cores (up to 1.37GHz operating frequency per core)
- NVIDIA Deep Learning Accelerator: included
- Memory: 32GB 256-bit wide LPDDR4x @ 2133MHz (max bus frequency) | 136.5GB/s (max bandwidth)
- Storage
 - 32GB internal eMMC 5.1
 - 1 x M.2 PCIe interface
 - 1 x Micro SD card interface
- Multi-Stream HD Video & JPEG
 - Video Encode: H.265 (HEVC), H.264, VP9
 - Video Decode: H.265 (HEVC), H.264, VP9, VP8, MPEG-4, MPEG-2, VC-1
 - JPEG (Decode & Encode)
- WIFI & Bluetooth: not supported by default. Please contact sales if needed.
- Ethernet: 10/100/1000 BASE-T Ethernet
- Camera: two 4T1 Fakra connectors supporting up to 8 cameras
 - 4T1 mating connector: 2298721-9
- DeSerializer: Maxim MAX96712
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Input power supply range: 12 ~ 36 VDC
- Operating Temperature: -20°C ~ +60°C
- Weight: ~ 1970 g
- Dimensions: 160.0 (L) x 129.0 (W) x 98.0 (H) mm
- Part#: **LI-AGX-BOX-GM2B**

INTERFACES

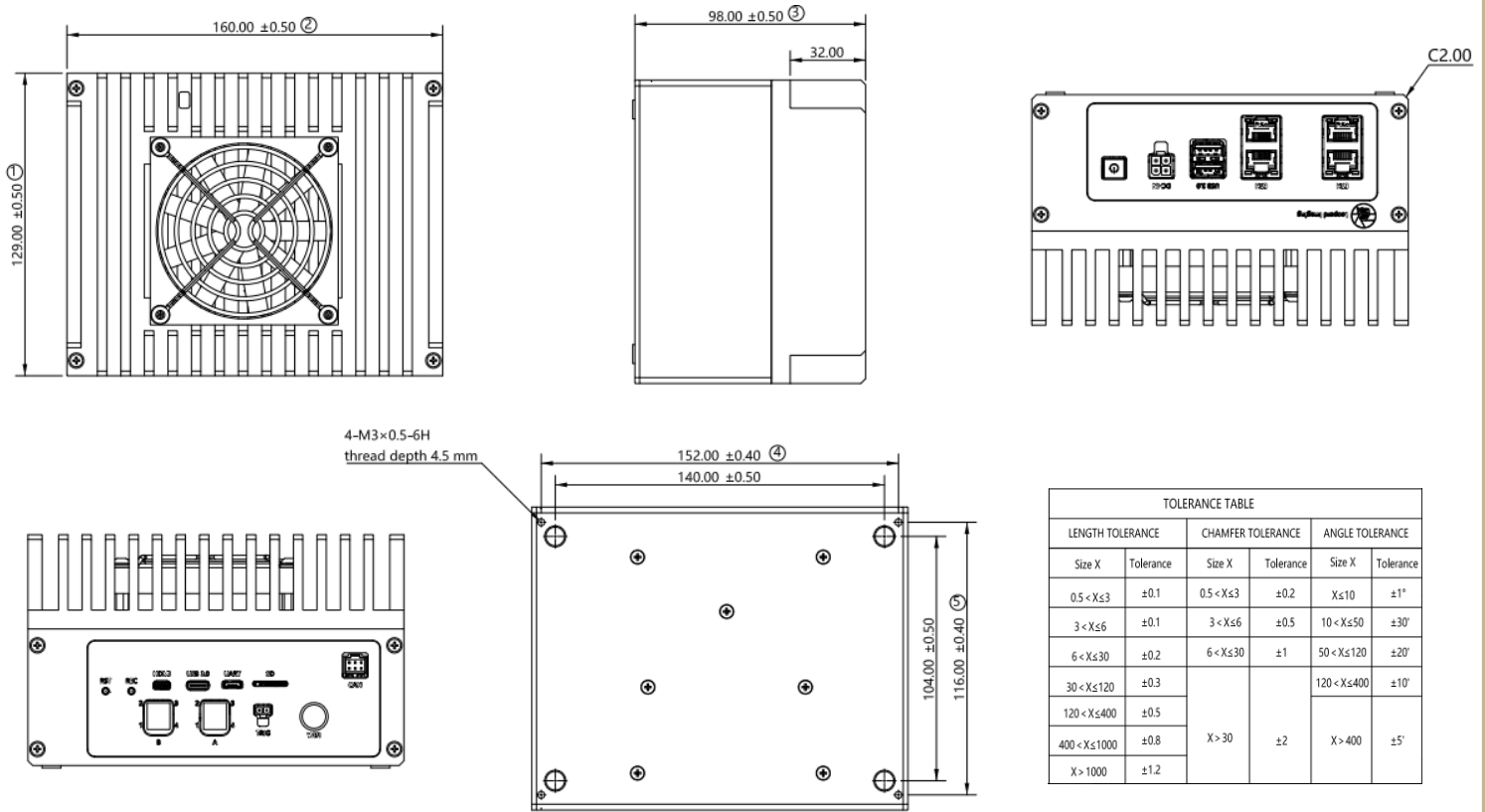
- 2 x 4T1 Fakra connectors for camera connection (support up to eight cameras)
- 1 x Micro HDMI connector
- 1 x USB 3.0 Type-C interface
- 1 x USB 2.0 Micro-B interface (UART)
- 1 x Micro SD card interface (push-pull type)
- 1 x Power socket (DC 19V)
- 1 x CAN interface
- 1 x External Trig interface
- 2 x USB3.0 Type-A interfaces (stacked)
- 4 x RJ45 Gigabit Ethernet interfaces (each two stacked)
- 2 x M.2 PCIe interfaces (one for WIFI & Bluetooth, one for SSD)

NOTE:

- These two interfaces are inside the box, which require to open the outer case to install.
- The WIFI & Bluetooth interface is not supported by default. If you need, please contact sales.
- REC, RST and PWR buttons included



DIMENSIONS



NOTE:

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

Unit: mm

BOM

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

- REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	12 Sep 2023
1.1	Change P/N from "LI-AX-BOX-GM2B "to "LI-AGX-BOX-GM2B'.	25 Jan 2024

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