



LEOPARD
IMAGING

LI-AGO-BOX-GM2A-8CAM



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INTRODUCTION

The LI-AGO-BOX-GM2A-8CAM is an embedded AI supercomputer, supporting up to 8 cameras and featuring massive computing capabilities. Its shock resistance connector, active hybrid cooling system, waterproof design and other essential terminal device friendly features make the box reliable and suitable for outdoor use.

KEY FEATURES

- High performance active hybrid cooling system
- Jetson AGX Orin 32GB Processor
 - AI Performance: 200 TOPS (INT8)
 - GPU: NVIDIA Ampere architecture with 1792 NVIDIA CUDA[®] cores and 56 tensor cores
 - GPU Max Frequency: 930 MHz
 - CPU: 8-core Arm[®] Cortex[®]-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
 - CPU Max Frequency: 2.2 GHz
 - DL Accelerator: 2x NVDLA v2.0
 - DLA Max Frequency: 1.4 GHz
 - Vision Accelerator: PVA v2.0
 - Memory: 32GB 256-bit LPDDR5 204.8 GB/s
 - Storage: 64GB eMMC 5.1
 - 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
- Built-in expansion: MINI PCIE slot and M.2 2280 slot
- Camera: two 4T1 GMSL2 Mini Fakra connectors for 8 cameras maximally
4T1 mating connector: 2298721-9
- DeSerializer: Maxim MAX9296
- Power supply: 9 ~ 36 VDC
- Weight: ~ 4 Kg
- Dimensions:
 - 276 (W) x 214 (D) x 71 (H) mm
(I/O ports and mounting holes included)
 - 240 (W) x 173 (D) x 71 (H) mm
(I/O ports and mounting holes not included)
- Part#: **LI-AGO-BOX-GM2A-8CAM**

INTERFACES

- Network: 4 x Gigabit Ethernet Ports
 - Camera: 2 x 4T1 GMSL2 Mini Fakra connectors
 - Video output: 1 x HDMI 2.0 Type-A
 - USB: 2 x USB 3.0 Type-A
 - GPIO: 4 x In (0 ~ 12V), 4 x Out (3.3V)
 - CAN FD: 5 x CAN FD (With CAN chip Terminal resistor 120Ω)
 - UART: 1 x Debug (RS232), 3 x RS232, 2 x RS485 / RS422
 - Sync I/O: 1 x SYNC_IN (0-12V), 1 x SYNC_OUT (3.3V), 1 x SYNC_PPS (3.3V)
 - User expansion: 1 x M.2 M Key (PCIe x4, 2280) , 1 x Mini PCIe (for 4G or WiFi expansion), 1 x Nano SIM Socket
- NOTE:** The LI-AGO-BOX-GM2A-8CAM has dust-proof and water-draining treatment. It is recommended to pre-install the corresponding expansion modules when purchasing.
- REC, RST and PWR buttons included

Environmental

- Operating temperature: -25°C ~ +70°C
- Storage temperature: -40°C ~ +80°C
- Storage humidity: 10% ~ 90% non-condensing
- Vibration: 2 Grms, 10 ~ 500 Hz, 1 h/axis
- Protection: IP5X (Default), IP65 (Options)

NOTE: The LI-AGO-BOX-GM2A-8CAM has dust-proof and water-draining treatment. The IP rating for all interfaces is IP65. It is recommended to contact Leopard Imaging if you have higher IP requirements on the whole product.

APPEARANCE



Front View



Rear View

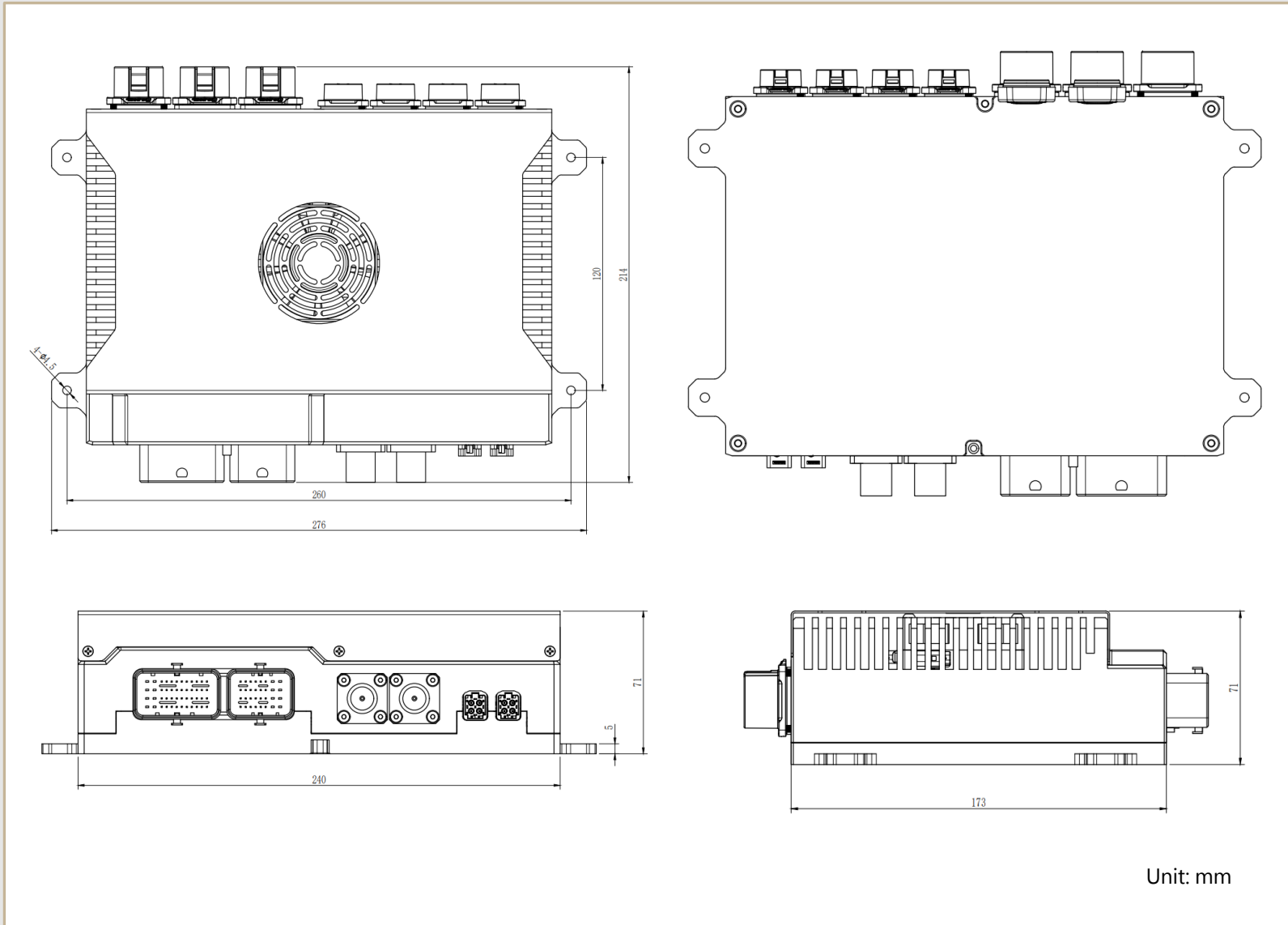


Left View



Right View

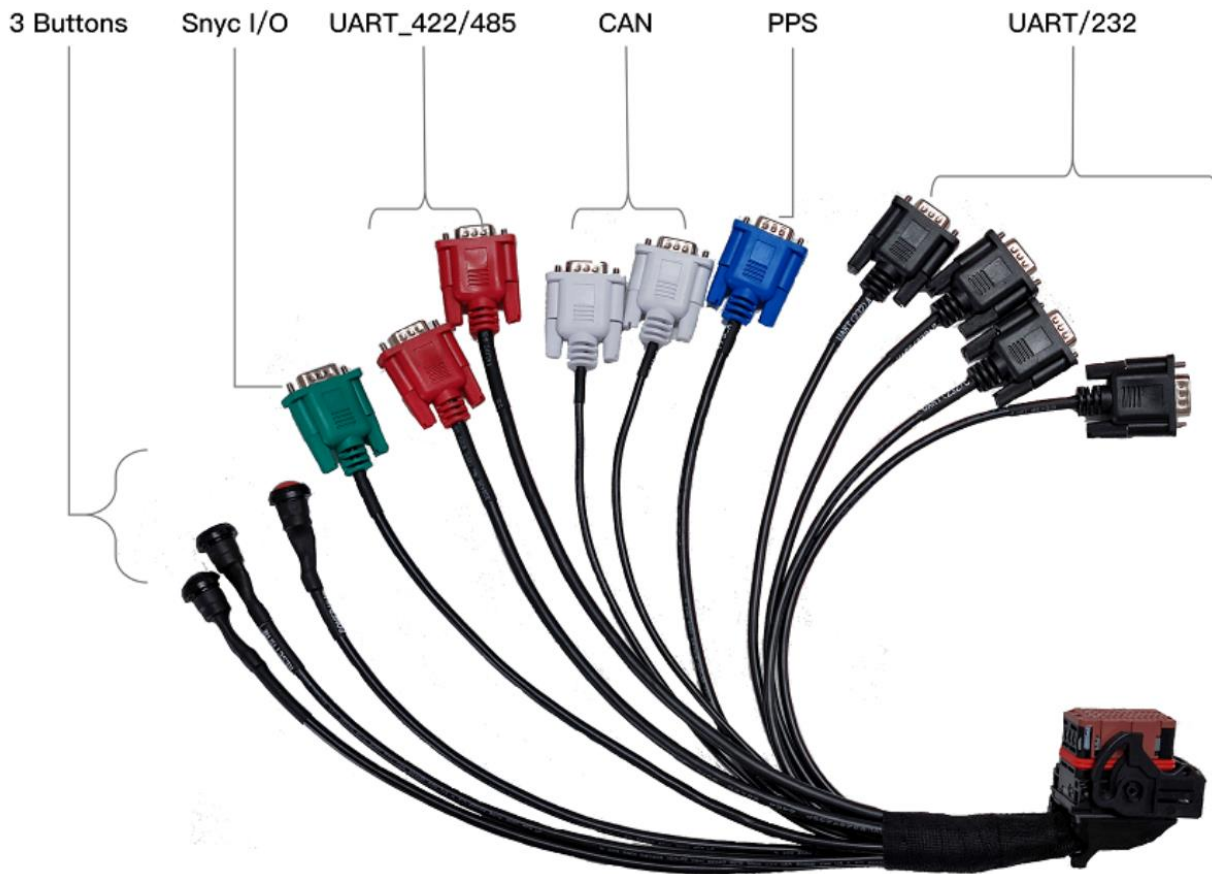
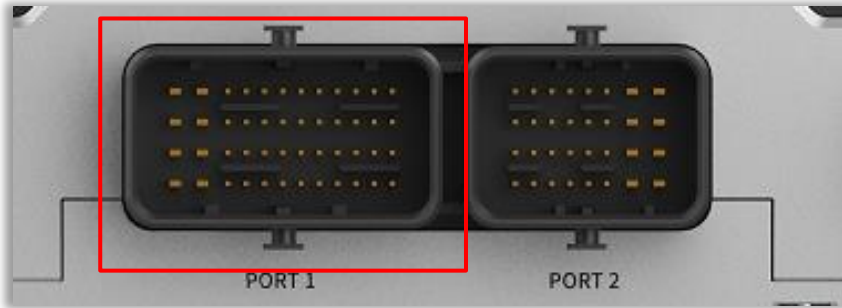
DIMENSIONS



BOM

#	Items	QTY
1	LI-AGO-BOX-GM2A-8CAM	1
2	Cable Adapter for Port 1	1
3	Cable Adapter for Port 2	1
4	4T1 MINI Fakra Cable for Camera	2
5	24 VDC Power Supply	1

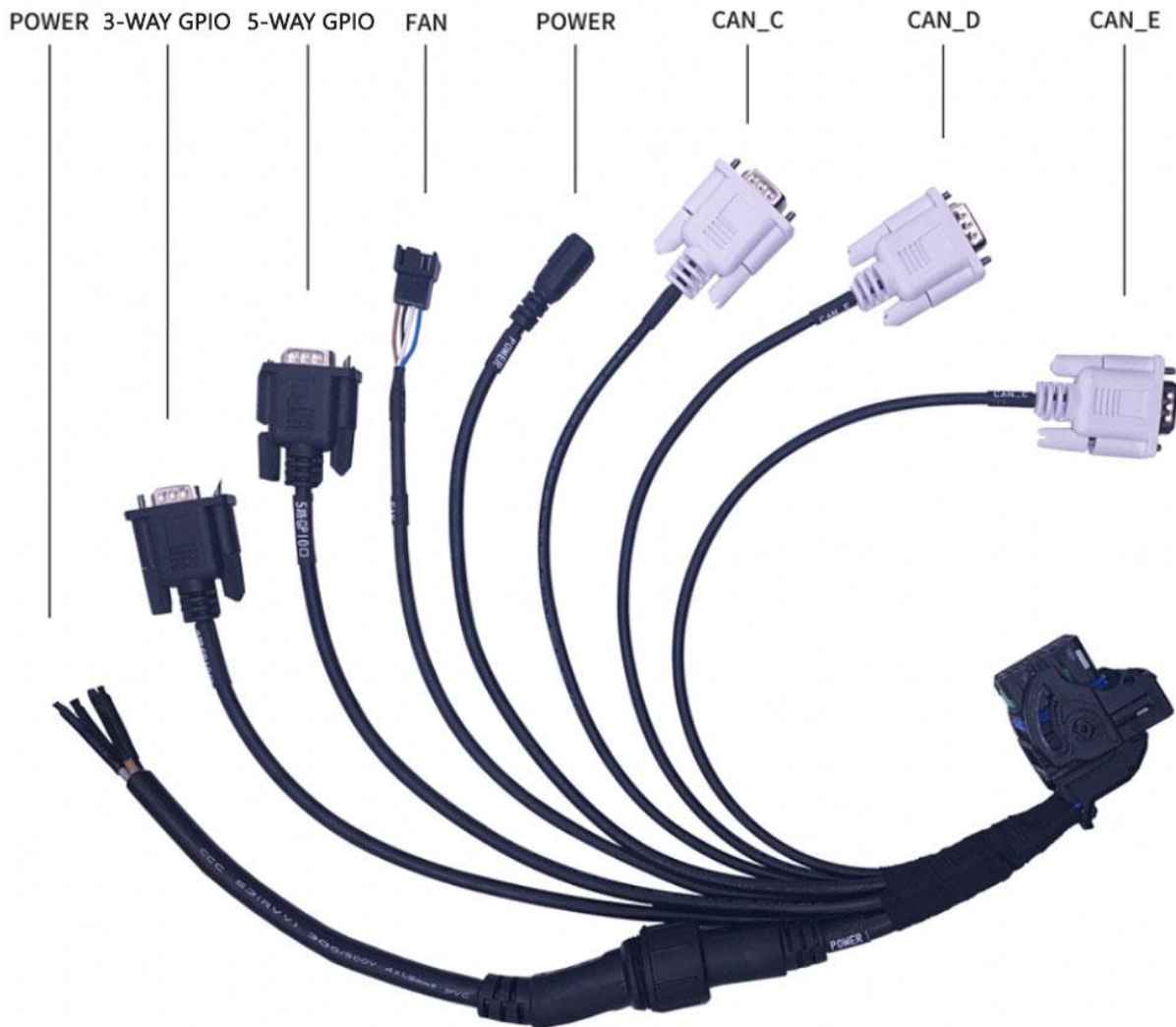
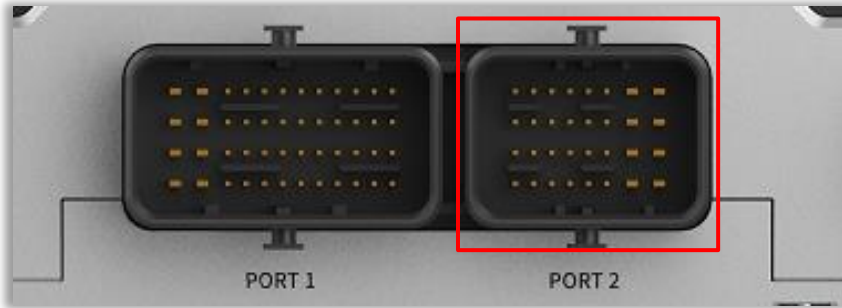
Cable Illustration



Cable Adapter for Port 1

NOTE: All DB9 interfaces are male to male.

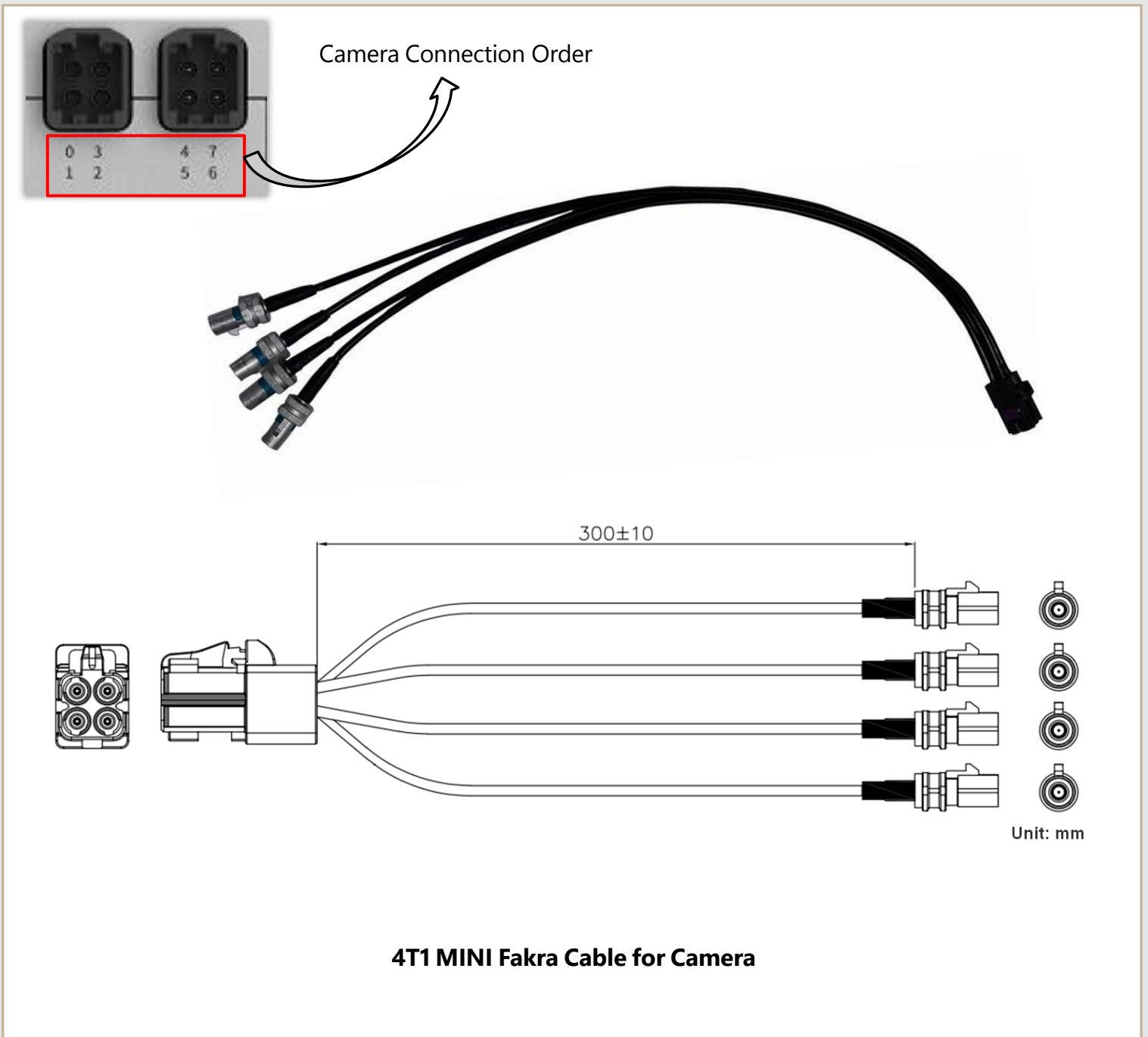
Cable Illustration



Cable Adapter for Port 2

NOTE: All DB9 interfaces are male to male.

Cable Illustration



- REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	21 Apr 2023
1.1	Added BOM and cable illustration.	27 Apr 2023
1.2	Changed the QTY of 4T1 cable from 1 to 2.	12 Dec 2023

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