

MIC-715

AI Inference System Based on NVIDIA® Jetson™ Xavier NX

Preliminary



Features

- All-around IP67 waterproof with compact fanless design
- NVIDIA® Jetson™ Xavier NX embedded
- Support 4 x PoE with IEEE 802.3af compliance
- Linux OS with board support package (BSP)
- Supports deep learning trained models
- Wide operating temperature range
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon
- Support SerDes GMSL by optional

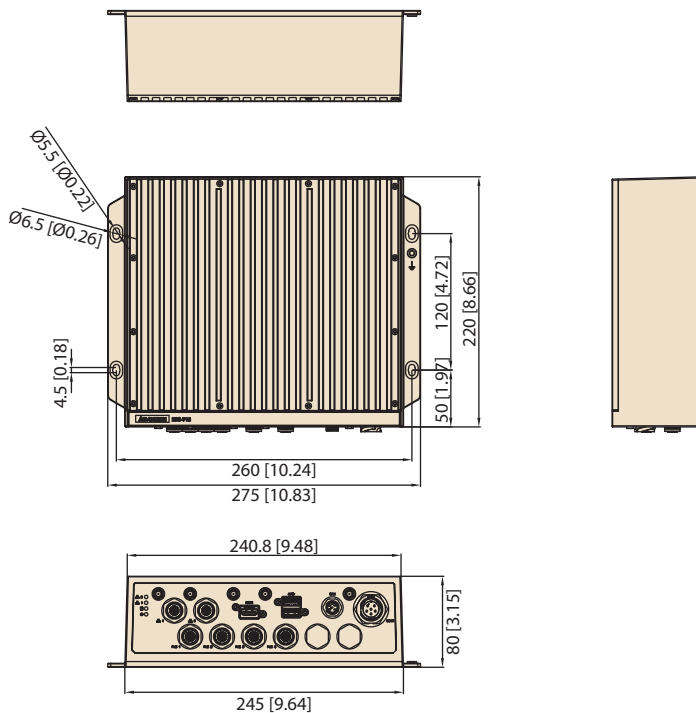


Specifications

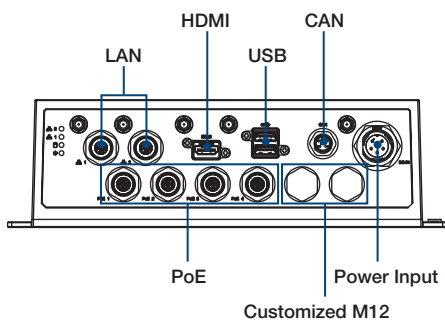
| | | |
|------------------|-------------------------|---|
| Processor System | CPU | ARMv8.2 (64-bit) heterogeneous multi-processing (HMP) CPU architecture 3 x dual-core CPU clusters (six NVIDIA Carmel processor cores) (Max. Operating Frequency: 1.9 GHz) |
| | GPU | 384 CUDA Core, 48 Tensor Cores, Performance up to 21 TOPS (INT8) Max. operating frequency: 1100 MHz |
| | Memory | 8 GB 128-bit LPDDR4x DRAM |
| | Flash | 16G of eMMC |
| Ethernet | Interface | M12 X-coded, 8-pin female |
| | Controller | Intel® I210 |
| | Speed | 6 x Gigabit Ethernet (10/100/1000 Mbps), support 4 x PoE ports, IEEE 802.3af compliant |
| I/O | Display | HDMI (Max. resolution 3840 x 2160 @ 60Hz) |
| | USB | External 2 x USB 3.0 (waterproof connector) |
| | OTG USB (Internal) | 1 x Micro USB |
| | Serial Ports | 2 x CAN (Interface: M12 A-coded, 5-pin male) |
| Expansion | MiniPCIe | 2 x Full size MiniPCIe with one SIM slot support |
| | M.2 | 1 x M.2 3052 B key (5G) |
| Storage | M.2 | 1 x M.2 2280 M Key (NVMe, PCIe1) |
| | SD Card | 1 x MicroSD slot |
| Power | Power Supply | Power adaptor: 12/24 V _{DC} (12A-6A) |
| | Power Type | M16, 6-pin male |
| LED | LED Indicator | 1 x Power, 1 x Storage, 2 x LAN |
| Environment | Operational Temperature | -25 ~ 60 °C with 0.7 m/s air flow (Max-P ARM mode) |
| | Operating Humidity | 95% @ 40 °C (non-condensing) |
| | Vibration | 3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis |
| Mechanical | Dimensions (W x D x H) | 275 x 220 x 80 mm (10.8 x 8.7 x 3.2") |
| | Weight | 4.5 kg |
| | Installation | Desktop |
| Operating System | Linux | Ubuntu 18.04 with JetPack |
| Certifications | | CB/UL/CE/FCC/CCC (No RED certification) |

Dimensions

Unit: mm



Front View



Ordering Information

| Part Number | Description | Quantity |
|--------------|----------------------------|----------|
| MIC-715-NXA1 | NVIDIA AI Inference System | 1 |

Remote Management Enrollment

Enroll in 24/7 secure service to get full feature of remote device management on one centralized cloud portal - Allxon Portal.

Enrollment Page: https://allxon.com/jetson/device_enroll/

Optional

| Part Number | Description |
|--------------------|---|
| XSK320-LRS-150-12* | Open Frame, A/D 100-240V 150W 12V |
| 1700022250-21* | A Cable Waterproof 5P(F) 200cm (CAN cable) |
| 1700025503-01 | M cable Waterproof 8P/RJ45-8P8C 100cm (M12 to RJ45) |
| 1700032301-01* | M Cable Waterproof 6P(F)/TEMx6 15cm (Power cable) |
| 1700001524 | Power Cord UL 3P 10A 125V 183cm (US) |
| 170203183C | Power Cord EU 3P 2.5A 250V 183cm (EU) |
| 170203180A | Power Cord BSI 3P 2.5A 250V 183cm (UK) |
| 1702031836 | Power Cord SAA 3P 10A 250V 183cm (AU) |
| 1700008921 | Power Cord PSE 3P 7A 125V 183cm (Japan) |
| 1700019146 | Power Cord CCC 3P 2.5A 250V 183cm (China) |

* It is only for development/ testing usage, not for deployment