

MIC-715-NX

Ruggedized In-Vehicle AI Fanless System Based on NVIDIA® Jetson Xavier™ NX



Features

- Ruggedized IP67 waterproof fanless design
- Embedded with NVIDIA® Jetson Xavier™ NX up to 21 TOPS
- 2 x GbE and 4 x PoE with IEEE 802.3af compliance
- 2 x USB 3.0, 2 x CANbus, 1 x HDMI
- Supports 2 x mPCIe, 1 x M.2 3052, 1 x M.2 2280
- Linux OS with board support package (BSP)
- Supports Allxon 24/7 remote monitoring and OTA deployment



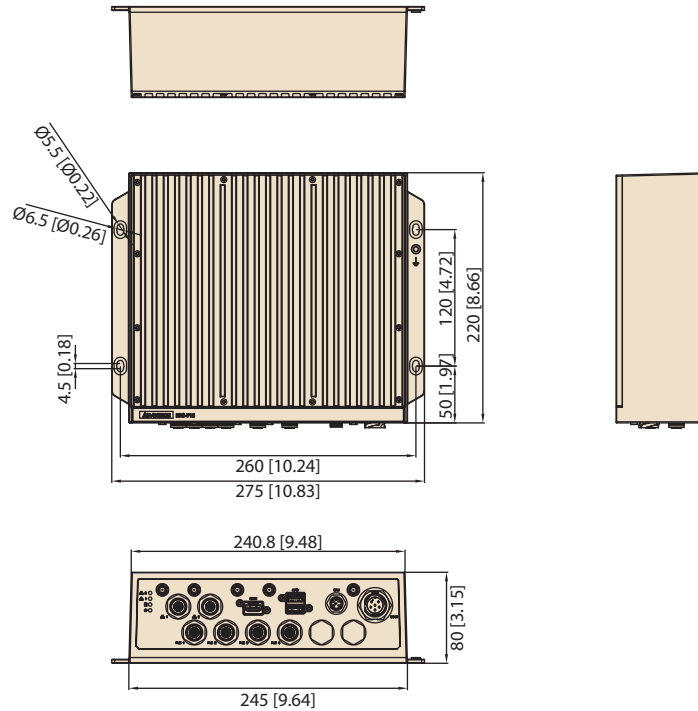
Specifications

| | | NVIDIA® Jetson Xavier™ NX |
|------------------|------------------------|---|
| Processor System | CPU | 8GB: 6-core NVIDIA Carmel ARM® v8.2 64-bit CPU |
| | GPU | 384-core NVIDIA Volta GPU with 48 Tensor Cores |
| | Memory | 8GB LPDDR4 |
| | Flash | 16G of eMMC |
| I/O | Ethernet | 6 x 10/100/1000 Mbps (4 x PoE support, IEEE 802.3af) in M12 X-coded, 8-pin female connector |
| | Display | HDMI (Max. resolution 3840x2160 @ 60Hz) |
| | USB | External: 2 x USB 3.0 |
| | CANBus | 2 x CANBus |
| | OTG USB | 1 x Micro USB |
| Expansion | Mini PCIe | 2 x mPCIe (signal: PCIe + USB) |
| | SIM | 1 x Nano SIM slot |
| | M.2 | 1 x M.2 3052 (B-Key, signal: PCIe + USB) |
| Storage | M.2 | 1 x M.2 2280 M-Key (NVMe, PCIe x1) |
| | SD Card | 1 x Micro SD slot |
| Power | Mode | M16, 6-pin male |
| | Input power | 12/24V _{DC} (12-6A) with ignition *Note1 |
| Environment | Operating Temperature | -25 ~ 60 °C with 0.7 m/s airflow (Max-P ARM mode) |
| | Operating Humidity | 95% @ 40 °C (non-condensing) |
| | Vibration | 3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis |
| | Shock | 10G/11ms |
| 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 |
| BSP | Jetpack | Above 4.4.1 |
| Certifications | | CB/UL/CE/FCC/CCC (No RED certification) |

Note1: Default setting is 12V DC in. If the power source is 24V, please open the case and adjust the SW1 DIP switch to 01 for 24V DC in.

Dimensions

Unit: mm



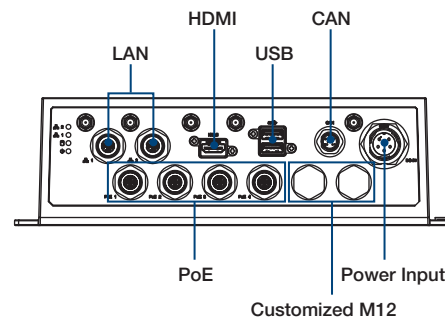
Ordering Information

| Part Number | NVIDIA Module | Memory | eMMC | SD Card |
|--------------|---------------|--------|------|---------|
| MIC-715-NXA1 | Xavier NX | 8GB | 16GB | YES |

Optional

| Part Number | Description |
|---------------|--|
| 1700025503-01 | M Cable Waterproof 8P/RJ45-8P8C 100cm (M12 to RJ-45) |
| 1700022250-21 | A Cable Waterproof 5P(F) 200cm (CAN 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) |

Front View



Remote Management Enrollment

Enroll in 24/7 secure service to get all the features of remote device management on one centralized cloud portal - Alixon Portal.

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

Optional for Development/Testing Only

| Part Number | Description |
|-------------------|-----------------------------------|
| XSK320-LRS-150-12 | Open Frame, A/D 100-240V 150W 12V |