

MIC-715

AI Inference System Based on NVIDIA® Jetson™ Xavier NX



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

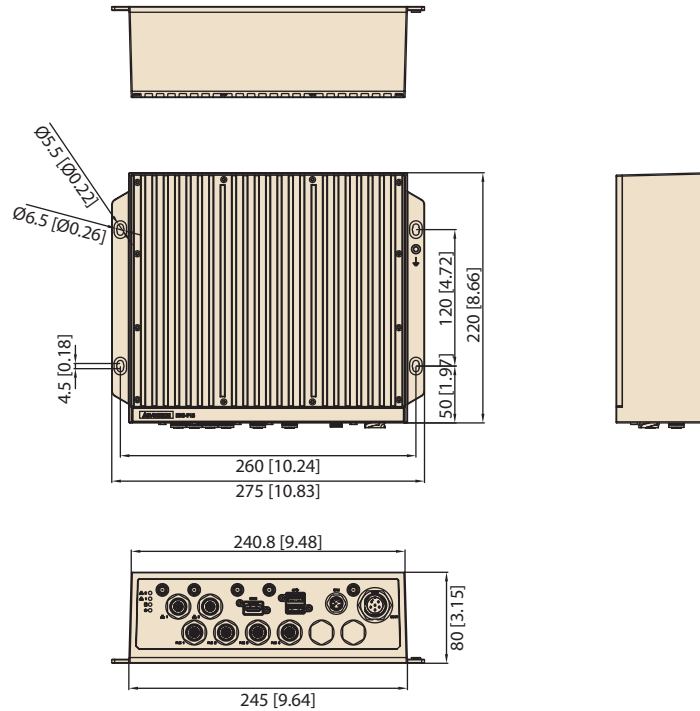


Specifications

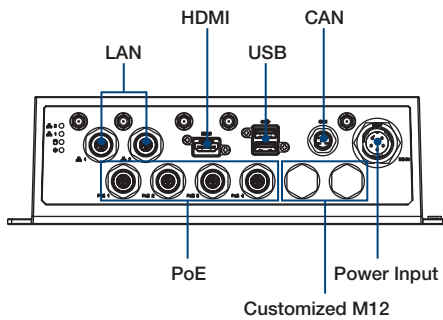
Processor System	CPU	ARMv8.2 (64-bit) heterogeneous multi-processing (HMP) CPU architecture 3 x dual-core CPU clusters (six NVIDIA Carmel processor cores) (Max. Operating Frequency: 1.9 GHz)
	GPU	384 CUDA Core, 48 Tensor Cores, Performance up to 21 TOPS (INT8) Max. operating frequency: 1100 MHz
	Memory	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
1700023619-01	OTG USB cable	1
1700032301-01	Power cable (Waterproof)	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)
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