

MIC-715

AI Inference System Based on NVIDIA® Jetson™ Xavier NX

Preliminary



Features

- Compact, IP67 rated, waterproof fanless design
- Embedded NVIDIA® Jetson™ Xavier NX
- Supports 4 x IEEE 802.3af compliant PoE
- Linux OS with board support package (BSP)
- Supports deep learning trained models
- Supports wide operating temperature range
- Supports 24/7 secure remote monitoring, control, and OTA deployment powered by Allxon
- Optional SerDes GMSL

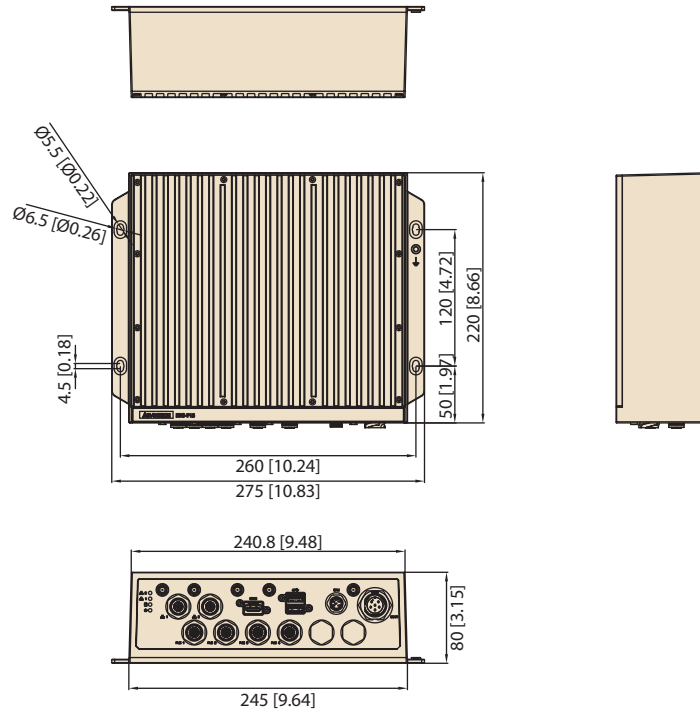


Specifications

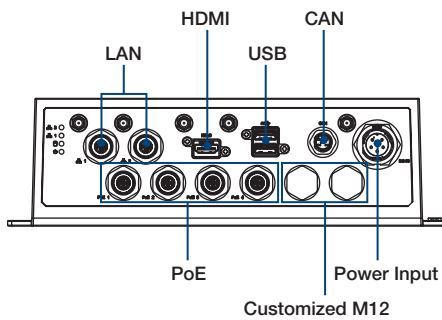
Processor System	CPU	ARMv8.2 (64-bit) heterogeneous multi-processing (HMP) CPU architecture 3 x dual-core CPU clusters (six NVIDIA Carmel processor cores) (Max. Operating Frequency: 1.9 GHz)
	GPU	384 CUDA Core, 48 x Tensor Cores, up to 21 TOPS (INT8) performance Max. operating frequency: 1100 MHz Max. operating frequency: 1100 MHz
	Memory	8 GB 128-bit LPDDR4x DRAM
	Flash	16GB eMMC
Ethernet	Interface	M12 X-coded, 8-pin female
	Controller	Intel® I210
	Speed	6 x Gigabit Ethernet (10/100/1000 Mbps), supports 4 x PoE ports, and is 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 1 x SIM slot
	M.2	1 x M.2 3052 B key (5G)
Storage	M.2 SATA	1 x M.2 2280 M Key (support NVMe)
	SD Card	1 x MicroSD slot
Power	Power Supply	Power adaptor: 9 ~ 36V _{DC} (16A~4A)
	Power Type	M16, 6-pin male
LED	LED Indicator	1 x power, 1 x storage, and 2 x LAN
Environment	Operational Temperature	-25 ~ 60 °C (-13 ~ 140 °F) with 0.7 m/s air flow (Max-P ARM mode)
	Operating Humidity	95% @ 40 °C /104 °F (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 in)
	Weight	4.5 kg/9.9 lb
	Installation	Desktop/DIN RAIL
Operating System	Linux	Ubuntu 18.04 with JetPack
Certifications		CE/FCC/BSMI/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 to Allxon for 24/7 secure service and receive full remote device management features on a centralized cloud portal - Allxon Portal.

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

Optional

Part Number	Description
96PSA-A150W19P4-3	Adaptor A/D, 100-240V, 150W, 19V
1700001524	Power Cord UL 3P 10A 125V 183 cm; 72 in (US)
170203183C	Power Cord EU 3P 2.5A 250V 183 cm; 72 in (EU)
170203180A	Power Cord BSI 3P 2.5A 250V 183 cm; 72 in (UK)
1702031836	Power Cord SAA 3P 10A 250V 183 cm; 72 in (AU)
1700008921	Power Cord PSE 3P 7A 125V 183 cm; 72 in (Japan)
1700019146	Power Cord CCC 3P 2.5A 250V 183 cm; 72 in (China)
98R1750020E	DIN RAIL bracket kit
1960065854N001	PCM series module bracket