Russia: LLC “ID Solution”
+7 495 545 3283
www.idsolution.ru

MIC-720AI

AI Inference System based on NVIDIA Jetson® Tegra X2 256 CUDA Cores

Features

- Fanless and compact design
- Supports NVIDIA Jetson® Tegra X2
- 2 USB 3.0 ports and 1 internal USB 2.0
- 1 IEEE 802.3af POE port
- Linux OS with BSP (board support package)
- Support deep learning trained models
- Wide operating temperature

Introduction

MIC-720AI is the ARM based system which integrated NVIDIA® Jetson™ Tegra X2 System-on-Module processor, providing 256 CUDA® cores on the NVIDIA® Pascal™architecture. It is designed for the edge applications support rich I/O with low power consumption. The system has 8GB LPDDR4 memory, 4K video decode/encode, 2 USB3.0,POE and mSATA expansion. With wall mount brackets and fanless design which can help you easily install in rugged environment. This small embedded system is an ideal system for AI inference edge and deep learning applications.

Specifications

		MIC-720AI-00A1
Processor System	CPU	nVIDIA TX2 Dual Core nVidia Denver2.0 + Quad Core ARM Cortex A57
	Memory	8GB LPDDR4
	Flash	32G of eMMC
Ethernet	Interface	RJ-45
	Controller	Intel® i210IT
	Speed	1 x Gigabit Ethernet (10/100/1000 Mbps)
I/O	Display	HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	2 x USB 3.0 1 x USB 2.0 (Internal)
	DI/DO	8 bit
	Button	1 x Power on/off switch
	OTG USB	1 x Micro USB Mode I: Enable OTG Mode II: Enable Internal USB
Expansion	Storage	1 x mSATA slot
Camera Interface PoE	Controller	MICROSEMI_PD69101ILQ-TR
	Compliant	IEEE 802.3af
	Power Output	15.4W
Power	Power Supply Voltage	19-24V (3A~2A)
	Power Type	DC Jack
Environment	Operational Temperature	-10 ~ 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)	147 x 118 x 52 mm (5.7" x 4.6" x 2.4")
	Weight	1.2 kg
	Installation	Desktop/wall mount
Operating System	Linux	Ubuntu 16.04 with JetPack 3.3
Certifications		CE/FCC

All product specifications are subject to change without notice.
Last updated: 26-Jul-2019

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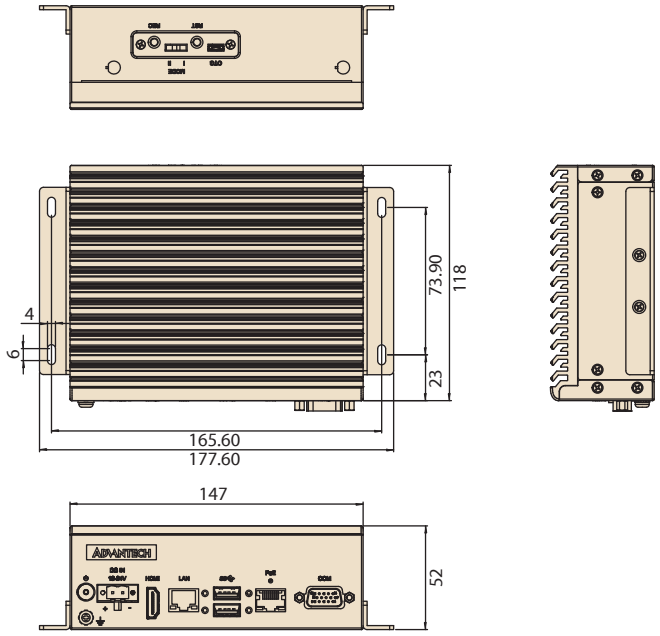
Dimensions

Unit: mm



Ordering Information

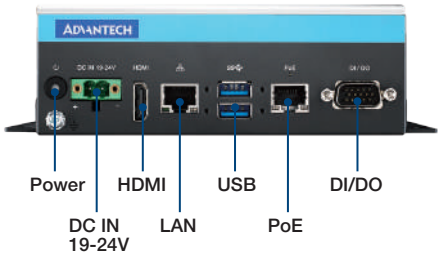
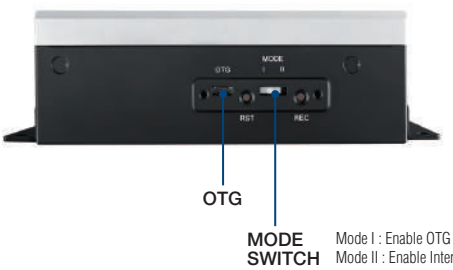
Part Number	CPU	Memory	eMMC	HDMI	POE	USB 3.0	DI/DO	LAN
MIC-720AI-00A1	NVIDIA TX2	8GB	32G	1	1	2	8	1

Packing List

Part Number	Description
MIC-720AI	AI Inference System based on NVIDIA Jetson® Tegra X2
2001720001	User Manual
1700023619-01	Micro USB to USB Type-A cable
1960052226N003	2X Mounting bracket
1652000099	Terminal Block 2P connector

Part No.	Description
96PSA-A65W19P2-2	ADP A/D 100-240V 65W 19V C6 TERMINAL BLOCK 2PIN
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)
1750000318	Antenna 2DBI 2.4GHz SMA CONN (1pcs)
1750008811-01	Antenna Cable Ant.SMA/F-R-BH MFH4/113 BLK L170 Main
1950016395T102	DIN RAIL bracket
1960088539N000	MSATA HEATSPREADER bracket
1990033295N000	MSATA Thermal-Pad
196009043N001	Tower type table mounting bracket

Front View



Rear View