

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.

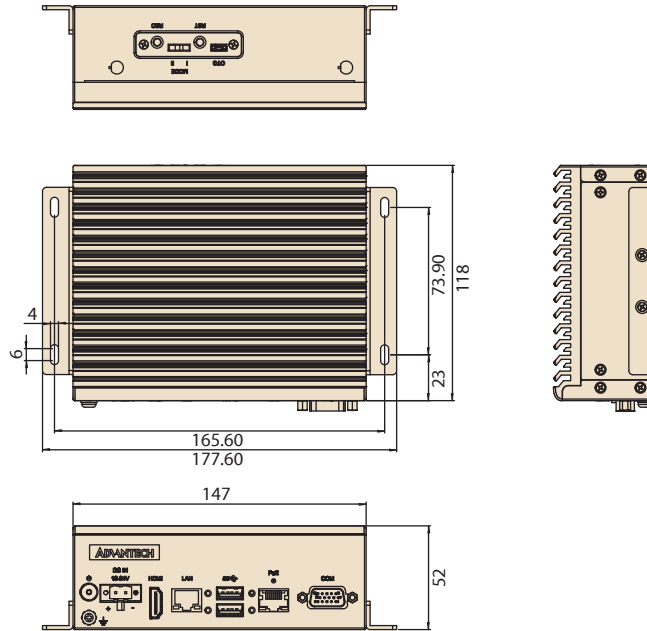
Specifications

| | | |
|----------------------|-------------------------|---|
| | | 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 |
| Certifications | | CE/FCC/CB/UL/BSMI/CCC |



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 |

Optional

| Part No. | Description |
|------------------|---|
| 96PSA-A65W19P2-1 | 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) |
| 98R1750020E | DIN RAIL bracket |

Front View



Rear View

