MIC-733-AO

AI Inference System Based on NVIDIA® Jetson AGX Orin™

Features
- Compact fanless design
- Embedded with NVIDIA® Jetson AGX Orin™ up to 275 TOPS
- Supports 4 x GbE (optional PoE), 4 x USB 3.2 Gen 2 (10 Gbit/s)
- Supports 2 x mPCIe, 2 x Nano SIM slots
- Supports Allxon 24/7 remote monitoring and OTA deployment; Azure Certified Devices

Specifications

NVIDIA® Jetson AGX Orin™

Processor
- CPU: 32GB: 8-core ARM Cortex A78AE v8.2 64-bit CPU, 2MB L2 + 4MB L3
- GPU: 32GB: 1024-core NVIDIA Ampere™ GPU with 56 Tensor Cores
- Memory: 64G: 64GB LPDDR5
- Flash: 64GB eMMC

I/O
- Ethernet: 4 x 10/100/1000 Mbps (Optional PoE support, IEEE 802.3at/at)
- Display: HDMI (Max. resolution 3840x2160 @ 60Hz)
- USB: External: 2 x USB 2.0, 4 x USB 3.2 Gen 2
- Digital I/O: 4-ch DI, 4-ch DO
- Power Switch: 1 x Power ON/OFF Button
- Serial Ports: 2 x RS-232/422/485 (On-board pin header)
- OTG USB: 1 x Micro USB

Expansion
- iModule (Optional): 1 x PCIe x8 (MIC-75M10-00A2)
- Mini PCIe: 2 x mPCIe (Signal: PCIe+USB)
- SIM: 2 x Nano SIM slots
- M.2: 1 x M.2 3052 (B-Key, Signal: USB)
- TPM (Optional): 1 x TPM 2.0
- GMSL (Optional): 2-ch GMSL2.0 with FAKRA connectors
- iDoor (Optional): 1 x iDoor bracket reserve

Storage
- M.2: 1 x M.2 2280 (M-Key, NVMe, Signal: PCIe x4)
- SD Card: 1 x Micro SD slot

Power
- Mode: AT/ATX (Default AT)
- Input Voltage: 9 ~ 36 VDC, 16-4A

Environment
- Operating Temperature: 0 ~ +60 °C with 0.7 m/s airflow (MaxN mode)
- Operating Humidity: 95% @ 40 °C (non-condensing)
- Vibration: 3Gms @ 5 – 500 Hz, random, 1 hr/axis
- Shock: 10G / 11 ms

Mechanical
- Dimensions (W x D x H): Core Module: 192 x 230 x 87 mm (7.55” x 9.05” x 3.43”)
- Weight: 4.5 kg (9.9 lb)

BSP
- Jetpack: Above 5.0

Certifications
- UL/CSA/CE/FCC/BSMI/CCC (No RED certification)

*Depending on the installation situation and interface connection. Derating of max. operating temp. is possible when using the cellular LTE module. Please see the user documentation.

Last updated: 17-May-2023

All product specifications are subject to change without notice.
### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>NVIDIA Module</th>
<th>Memory</th>
<th>eMMC</th>
</tr>
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<tbody>
<tr>
<td>MIC-733-AO5A1</td>
<td>AGX Orin</td>
<td>32 GB</td>
<td>64 GB</td>
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<tr>
<td>MIC-733-AO6A1</td>
<td>AGX Orin</td>
<td>64 GB</td>
<td>64 GB</td>
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### Packing List

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>MIC-733-AO</td>
<td>AI Inference System</td>
<td>1</td>
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<tr>
<td>1652003234</td>
<td>Power terminal block 4P</td>
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<tr>
<td>1652005204</td>
<td>DIO/OO terminal block 5P</td>
<td>2</td>
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<tr>
<td>1700023619-01</td>
<td>Micro USB cable for system recovery</td>
<td>1</td>
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<tr>
<td>1960070543T007</td>
<td>Mounting bracket</td>
<td>2</td>
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<tr>
<td>1960107065N000</td>
<td>M.2 mPCIe heat spreader bracket</td>
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### Optional

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>96PSA-A230W24P4-3</td>
<td>Adaptor A/D, 100-240V, 230W, 24V</td>
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<tr>
<td>96PSA-A150W19P4-3</td>
<td>Adaptor A/D, 100-240V, 150W, 19V</td>
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<tr>
<td>1702002600</td>
<td>Power Cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83 M, 180°</td>
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<tr>
<td>1700029019-01</td>
<td>Power Cord (PSE/BSMI), 3-pin, 7A, 125V, 1.8 M, DAC-ST01</td>
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<tr>
<td>1702002605</td>
<td>Power Cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90°</td>
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<tr>
<td>1960065854N001</td>
<td>PCM series module bracket</td>
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<tr>
<td>MIC-75M10-00A2*</td>
<td>iModule (1 x PCIe x8)</td>
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<tr>
<td>98RV710AL00</td>
<td>Allxon OOB module</td>
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<tr>
<td>98917330010</td>
<td>Add-on 4 ports PoE Module</td>
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</tbody>
</table>

* The iDoor on MIC-75M10 is not compatible with MIC-733

### Remote Management Enrollment

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

*Supports JetPack 4.4 GA and above

Enrollment Page: [https://allxon.com/jetson/device_enroll/](https://allxon.com/jetson/device_enroll/)