

# MIC-730AI

## AI Inference System based on NVIDIA Jetson® Xavier

Preliminary



### Features

- NVIDIA Jetson™ Xavier embedded
- Fanless compact design
- Support 1 x MiniPCIe & 1 x M.2 (PCIe4 NVMe)
- Bundle with Linux Ubuntu 18.04
- Low power consumption
- Support 1 x PCIe8 + 1 x PCIe4 expansion (Optional by iModule MIC-75M20)

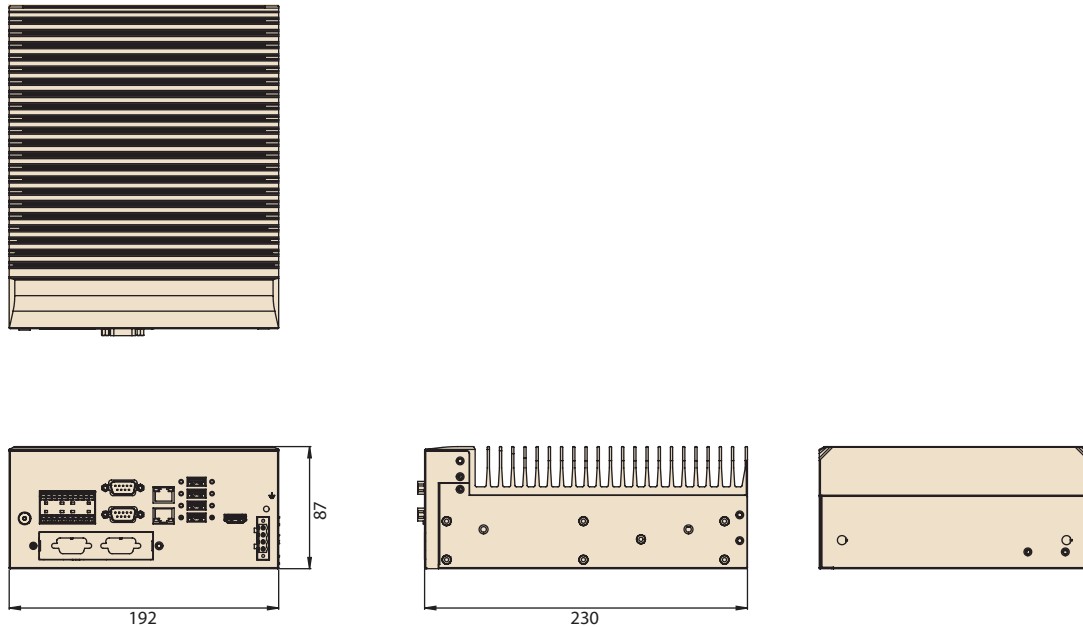


### Specifications

|                  |                         | Jetson AGX Xavier 8GB  | Jetson AGX Xavier 16GB  |
|------------------|-------------------------|--|---|
| Processor System | GPU                     | NVIDIA Volta™ architecture with 384 NVIDIA CUDA cores and 48 Tensor cores<br>5.5 TFLOPS (FP16)<br>11.1 TOPS (INT8) | NVIDIA Volta™ architecture with 512 NVIDIA CUDA cores and 64 Tensor cores<br>11 TFLOPS (FP16)<br>22 TOPS (INT8) |
|                  | CPU                     | 6-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3  | 8-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3   |
|                  | DLA                     | 4.1 TFLOPS (FP16)<br>8.2 TOPS (INT8)   | 5 TFLOPS (FP16)<br>10 TOPS (INT8)   |
|                  | Memory                  | 8 GB 256-bit LPDDR4x 1333MHz - 85GB/s  | 16 GB 256-bit LPDDR4x 2133MHz - 137GB/s   |
|                  | Storage                 | 32GB eMMC 5.1  |   |
| Ethernet         | Interface               | RJ45 x 2   |   |
|                  | Controller              | Marvell 88E1512  |   |
|                  | Speed                   | 10/100/1000 Mbps   |   |
| I/O              | Display                 | HDMI (Max. resolution 3840x2160 @ 60Hz)  |   |
|                  | USB                     | Internal: 1 x USB2.0<br>External: 2 x USB2.0, 2 x USB3.0   |   |
|                  | DI/DO                   | 16 bit (8In/8Out)  |   |
|                  | Power Switch            | Power ON/OFF Button x 1  |   |
|                  | OTG USB                 | MicroUSB x 1 (Internal)  |   |
|                  | COM                     | 2 x RS-232/RS-422/RS-485   |   |
| Expansion        | PCIe                    | 1 x PCIe8 + 1 x PCIe4 (optional by iModule MIC-75M20)  |   |
|                  | iDoor                   | 1 (Front side)   |   |
| Storage          | Storage                 | 2.5" HDD x 1 (Internal)  |   |
| Environment      | Operational Temperature | -10 ~ +50 °C with 0.7 m/s air flow   |   |
|                  | Operating Humidity      | 95% @ 40 °C (non-condensing)   |   |
|                  | Vibration               | 1 Grms @ 5 ~ 500 Hz, random, 1 hr/axis   |   |
| Mechanical       | Dimensions (W x D x H)  | Core Module: 192 x 230 x 87 (mm)<br>With iModule: 192 x 230 x 137 (mm)   |   |
|                  | Weight                  | 4.5 kg   |   |
|                  | Installation            | Desktop / Wall mount   |   |
| Operating System | Linux                   | Ubuntu 18.04   |   |
| Certifications   |                         | CE/FCC   |   |

## Dimensions

Unit: mm



## Ordering Information

| Part Number    | NVIDIA Jetson | CUDA/Tensor Cores | CPU                        | Memory                   | eMMC |
|----------------|---------------|-------------------|----------------------------|--------------------------|------|
| MIC-730AI-00A1 | Xavier        | 512/64            | 8-core ARM v8.2 64-bit CPU | LPDDR4<br>16G<br>1333MHz | 32GB |
| MIC-730AI-10A1 | Xavier        | 384/48            | 6-core ARM v8.2 64-bit CPU | LPDDR4<br>8G<br>1333MHz  | 32GB |

## Packing List

| Part Number | Description |
|-------------|-------------|
| TBD         |             |

## Front View

