

MIC-733

AI Inference System based on NVIDIA® Jetson AGX Orin

Preliminary



Features

- NVIDIA Jetson AGX Orin embedded
- Fanless compact design
- Support 2 x mPCIe with 1 x Nano SIM slot
- Support 1x M.2 2280 (NVMe) + 1x M.2 3052
- Support 4x GbE (optional PoE, IEEE 802.3af/at)
- Support PCIe8 add on card by iModule
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

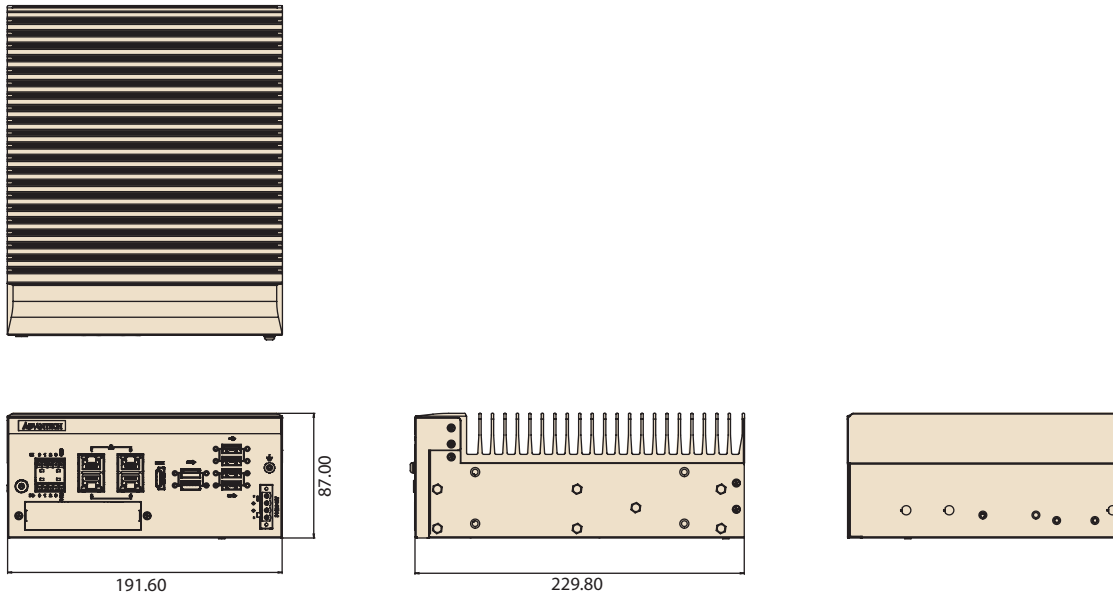


Specifications

		Jetson AGX Orin
Processor System	GPU	JAO 64GB: 2 GPC 8 TPC 2048 NVIDIA® CUDA® cores 64 Tensor cores Ray-Tracing cores 170 Sparse TOPS Maximum Operating Frequency: 1.3GHz JAO 32GB: 2 GPC 7 TPC 1792 NVIDIA® CUDA® cores 56 Tensor cores Ray-Tracing cores 108 Sparse TOPS Maximum Operating Frequency: 939 MHz
	CPU	JAO 64GB: 12x cores 3 CPU clusters (4 cores/cluster) 259 SPECint_rate2006 JAO 32GB: 8x cores 2 CPU clusters (4 cores/cluster) 177 SPECint_rate2006
	AI Performance	JAO 64GB: Up to 275 Sparse TOPS (INT8) JAO 32GB: Up to 200 Sparse TOPs (INT8)
	Memory	JAO 64GB: 64GB 256-bit LPDDR5 DRAM JAO 32GB: 32GB 256-bit LPDDR5 DRAM
	Storage	64GB eMMC 5.1
Ethernet	Interface	RJ45 x 4
	Controller	Intel i350
	Speed	10/100/1000 Mbps (Optional PoE support, IEEE 802.3af/at)
I/O	Display	HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	Internal: 1 x USB2.0 External: 2 x USB2.0, 4 x USB3.0
	DI/DO	8 bit (4 In/4 Out)
	Power Switch	Power ON/OFF Button x 1 (AT/ATX , Default : AT)
	OTG USB	MicroUSB x 1 (Internal)
	COM	2 x RS-232/RS-422/RS-485 (Internal pin head reserved)
Expansion	PCIe	Optional by iModule 1 x PCIe8 > MIC-75M10-00A1
	MiniPCIe	2 x mPCIe with 1x Nano SIM slot
	M.2	1 x M.2 (B Key, 3052, USB interface)
	TPM	Optional SPI interface
	GMSL	Optional GMSL2 module with 2 x FAKRA connector
Storage	Storage	1x MicroSD slot 1 x M.2 (M Key, NVMe 2280, PCIe4)
Power	Type	AT/ATX
	Power supply Voltage	9-36V, 16-4A
Environment	Operational Temperature	nvpmode1 MODE_30W_ALL: -10~+60°C with 0.7 m/s air flow MAXN: -10~+55°C with 0.7 m/s air flow
	Operating Humidity	95% @ 40 °C (non-condensing)
	Vibration	0.5Grms @ 5 ~ 500 Hz, random, 1 hr/axis (With HDD)
Mechanical	Dimensions (W x D x H)	Core Module: 192 x 230 x 87 (mm)
	Weight	4.5 kg
	Installation	Desktop / Wall mount
Operating System	Linux	Ubuntu 20.04/22.04
Certifications		UL/CB/CE/FCC/BSMI/CCC (No RED certification)

Dimensions

Unit: mm



Ordering Information

Part Number	NVIDIA Module	Memory	eMMC
MIC-733-A05A1	AGX Orin	32G	64G
MIC-733-A06A1	AGX Orin	64G	64G

Optional

Part Number	Description
96PSA-A230W24P4-3	Adaptor A/D, 100-240V, 230W, 24V
96PSA-A150W19P4-3	Adaptor A/D, 100-240V, 150W, 19V
1702002600	Power Cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83 M, 180 D
1700029019-01	Power Cord (PSE/BSMI), 3-pin, 7A, 125V, 1.8m, DAC-ST01
1702002605	Power Cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90 D
1960065854N001	PCM series module bracket
MIC-75M10-00A1	iModule (1 x PCIe x8)
98RV710AL00	Allxon OOB module

Packing List

Part Number	Description	Quantity
MIC-733	AI Inference System based on NVIDIA Jetson® AGX Orin	1
1652003234	Power terminal block 4P	1
1652010202	DI/DO terminal block 10P	2
1700013095-01	SATA cable	1
1700023619-01	Micro USB cable for system recovery	1
1700024372-01	SATA power cable	1
1960070543T007	Mounting bracket	2
1990008871S000	2.5 HDD Rubber	4
1930008089	MiniPCIe screw	2
1930005673-11	M.2 screw	1

Remote Management Enrollment

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

*Support JetPack 4.4GA and above

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

Front View

