

AGM-711-ON

AI Inference System Based on NVIDIA® Jetson Orin™ Nano

Preliminary



Features

- Fanless and ultra-compact design
- Embedded with NVIDIA® Jetson Orin™ Nano up to 40 TOPS
- Support 1 x GbE, 2 x USB3.2 Gen1 (5Gbit/s)
- Support 1 x mPCIe, 1 x M.2 M key, 1 x M.2 B key
- Support 9~36V wide range power input



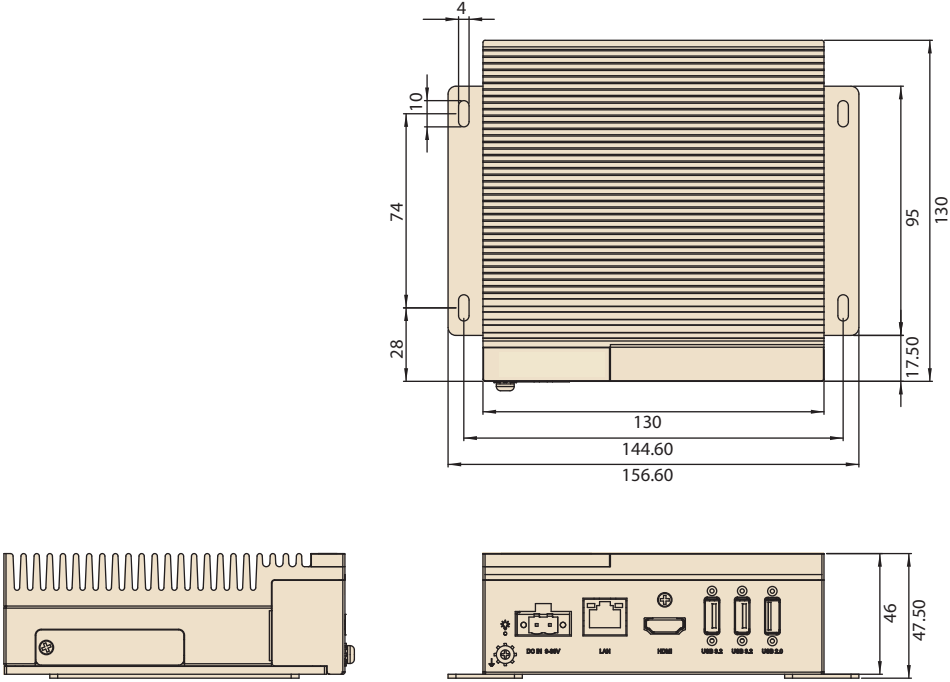
Specifications

Processor System	CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
	GPU	8G: 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores 4G: 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores
	Memory	8GB: 8GB LPDDR5 4G: 4GB LPDDR5
	Flash	-
I/O	Ethernet	1 x 10/100/1000 Mbps
	Display	HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	External: 2 x USB 3.2 Gen 2, 1 x USB 2.0 Internal: 1 x USB 2.0 (By pin header)
	OTG USB	1 x Micro USB
Expansion	MiniPCIe	1 x mPCIe (Signal: PCIe + USB 2.0)
	M.2	1 x M.2 3052 (B key, Signal: USB)
	SIM	2 x Nano SIM slots
Storage	M.2	1 x M.2 2280 (Mkey, NVMe, Signal: PCIe x4)
	SD Card	1 x Micro SD
Power	Type	Terminal block 2 pin, AT
	Supply	9 ~ 36V _{DC}
Environment	Operating Temperature*	-10 ~ 50 °C with 0.7 m/s air flow
	Operating Humidity	95% @ 40 °C (non-condensing)
	Vibration	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis
	Shock	10G / 11ms
Mechanical	Dimensions (W x D x H)	130 x 130 x 46 mm (5.1 x 5.1 x 1.8 inch)
	Weight	1.2 kg (2.65lbs)
	Installation	Desktop / Wall mount
BSP	Jetpack	Above 5.1
Certifications		CB/UL/CE/FCC/BSMI/CCC (No RED certification)

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

Dimensions

Unit: mm



Ordering Information

Part Number	NVIDIA Module	Memory	SD card
AGM-711-ON3A1	Orin Nano	8G	64GB (pre-installed system BSP)
AGM-711-ON2A1	Orin Nano	4G	64GB (pre-installed system BSP)

Packing List

Part Number	Description	Quantity
AGM-711-ON	NVIDIA® Jetson Orin™ Nano AI System	1
1652002202	Power connector-2Pin	1
1700023619-01	Micro USB cable for system recovery	1
1960095312N001	Mounting bracket	2
1930007979	Bracket screw	4
1930005673-11	M.2 screw	2
1930008089	MiniPCle screw	2

Optional

Part Number	Description
96PSA-A65W19P2-1	Power Adapter 100-240V 65W 19V
1700001524	Power Cord UL 3P 10A 125V 183 cm (US)
170203183C	Power Cord EU 3P 2.5A 250V 183 cm (EU)
170203180A	Power Cord BSI 3P 2.5A 250V 183 cm (UK)
1702031836	Power Cord SAA 3P 10A 250V 183 cm (AU)
1700008921	Power Cord PSE 3P 7A 125V 183 cm (Japan)
1700019146	Power Cord CCC 3P 2.5A 250V 183 cm (China)
98RV710AL00	Allxon OOB module (By optional chassis)

Front View

