MIC-711D-ON

AI Developer Kit Based on NVIDIA® Jetson Orin™ Nano



Features

- Open-frame carrier design with thermal solution
- Embedded with NVIDIA® Jetson Orin™ Nano up to 67 TOPS
- Supports 1 x GbE, 2 x USB 3.2 Gen 1 (5 Gbit/s)
- Supports 1 x mPCIe, 1 x M.2 3052, 1 x M.2 2280
- Supports Allxon 24/7 remote monitoring and OTA deployment
- Supports Super mode with Jetpack 6.2 and above

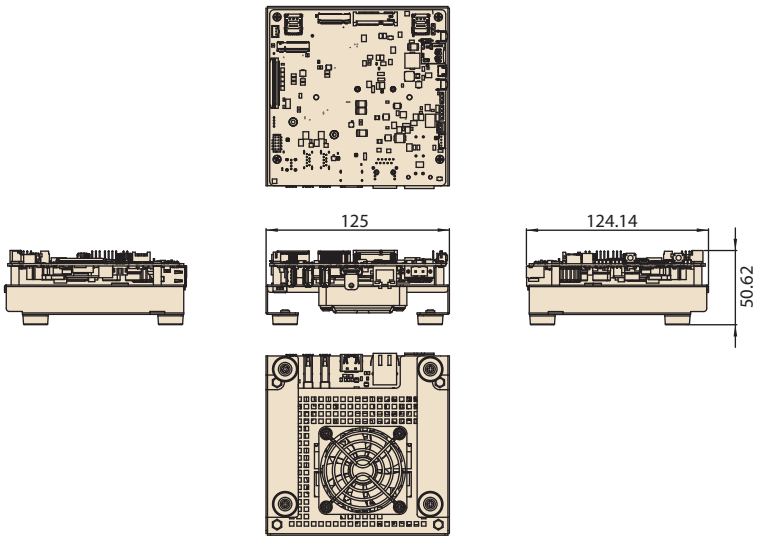
Specifications

		NVIDIA® Jetson Orin™ Nano
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 4GB: 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	Mini PCIe	1 x mPCIe (Signal: PCIe + USB 2.0)
	M.2	1 x M.2 3052 (B-Key, Signal: USB)
	GMSL (Optional)	2-ch GMSL2.0 with FAKRA connectors
	SIM	2 x Nano SIM slots
Storage	M.2	1 x M.2 2280 (M-Key, NVMe, Signal: PCIe x4)
	SD Card	1 x Micro SD
Fan	Dimension	60 x 60 x 13 mm (2.36" x 2.36" x 0.51")
	RPM	5400 RPM
Power	Mode	Terminal block, 2-pin, AT
	Input Voltage	9~36 V_{DC}
Mechanical	Dimensions (W x D x H)	125 x 125 x 51 mm (5.1" x 5.1" x 1.8")
	Weight	0.8 kg (1.76 lb)
	Installation	Desktop
BSP	Jetpack	Above 5.1

All product specifications are subject to change without notice.

Dimensions

Unit: mm



Ordering Information

Part Number	NVIDIA Module	NVIDIA Module Memory	Installed Jetpack version	NVMe	Super mode support
MIC-711D-0N3A1 (EOL)	Orin Nano	8GB	JP5.1.2	128GB pre installed	Yes (needs to update to JetPack 6.2)
MIC-711D-0N2A1 (EOL)	Orin Nano	4GB	JP5.1.2	128GB pre installed	Yes (needs to update to JetPack 6.2)
MIC-711D-0N3A2	Orin Nano	8GB	JP6.2	128GB pre installed	Yes (default)
MIC-711D-0N2A2	Orin Nano	4GB	JP6.2	128GB pre installed	Yes (default)

Packing List

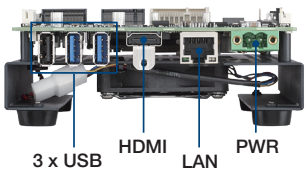
Part Number	Description	Quantity
MIC-711D-ON	AI developer kit	1
1652002202	Power connector — 2-pin	1

Part Number	Description	Quantity
1700023619-01	Micro USB cable for system recovery	1
1930005673-11	M.2 screw	2
1930008089	Mini PCIe screw	2

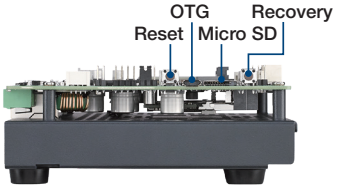
Optional

Category	Part Number	Description	Quantity
Adapter	96PSA-A65W19P2-1	Power Adapter 100-240V 65W 19V	1
Power cord	1700001524	Power Cord UL 3P 10A 125V 183 cm (US)	1
	170203183C	Power Cord EU 3P 2.5A 250V 183 cm (EU)	1
	170203180A	Power Cord BSI 3P 2.5A 250V 183 cm (UK)	1
	1702031836	Power Cord SAA 3P 10A 250V 183 cm (AU)	1
	1700008921	Power Cord PSE 3P 7A 125V 183 cm (Japan)	1
	1700019146	Power Cord CCC 3P 2.5A 250V 183 cm (China)	1
GMSL	MIC-FG-4G2C1	4ch GMSL Video Capture Card	1
	1751000805-01	RF Cable FAKRA-Z/F FAKRA-Z/F KS302 BLK L15M	by camera quantity
Wifi	EWM-W173H01E	Wi-Fi 6+BT 5.0 Module 2.4/5GHz Mini PCIe	1
	1751000626-01	RF Cable SMA/F-R MHF1/113 BLK L250mm	2
	1751000460-01	Dipole Ant. WiFi 6E SMA/M-R BLK L111.7mm IP54 (Wi-Fi)	2
5G	AIW-356-DQ	5G Sub6+GNSS M.2 3052 Key B (by region)	1
	1751000624-01	Cable Ant. SMA/F MHF4L/113 BLK L250mm (5G)	4
	1750009372-01	Ant.SMA/M 90/180 5G BLK 167mm RG178 (5G)	4
OOB	98RV710AL00	Allxon OOB module (By adding Expansion kit)	1

Front View



Back View



Top View

