

MIC-712P-ON

AI Platform Based on NVIDIA® Jetson Orin™ Nano

Preliminary



Features

- Ultra-slim design for mobile equipment in safety & security applications
- Embedded with NVIDIA® Jetson Orin™ Nano
- Support 6 ports POE with 25W supply per port.
- Support NVIDIA super mode up to 67 TOPS performance
- Integrate Out-of-Band management within the system

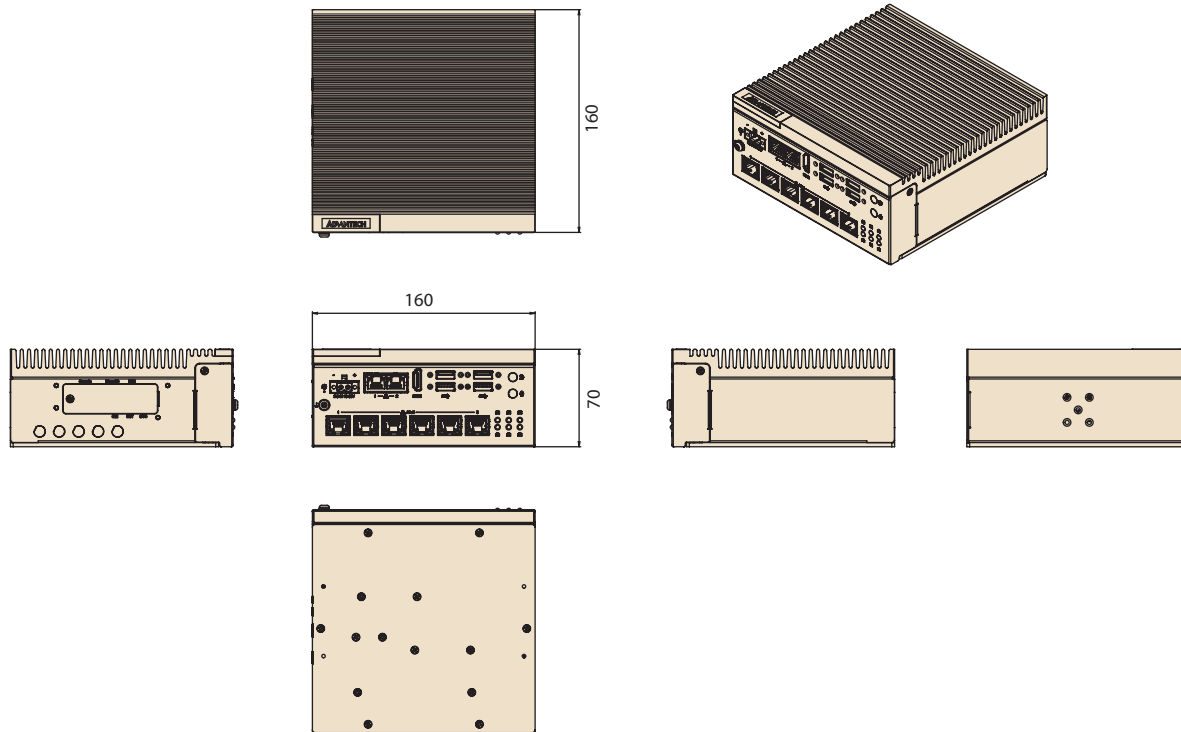


Specifications

		NVIDIA® Jetson Orin™ Nano
Processor System	CPU	8GB: 6-core NVIDIA Arm Cortex A78AE v8.2 64-bit CPU 4GB: 6-core NVIDIA Arm Cortex A78AE v8.2 64-bit CPU
	GPU	8GB: 1024 core NVIDIA Ampere GPU with 32 Tensor Cores 4GB: 512 core NVIDIA Ampere GPU with 16 Tensor Cores
	Memory	8GB: 8GB LPDDR5 4GB: 4GB LPDDR5
I/O	Ethernet	2 x 10/100/1000 Mbps 6 x 10/100/1000 Mbps POE, 25W per port, individual control
	Display	HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	External: 4 x USB 3.2 Gen 2
	Debug console	1 x Micro USB
	OTG USB	1 x Micro USB
Expansion	M.2 E-key	1 x 2230 E-key (Signal: PCIe + USB 2.0)
	M.2 B-key	1 x M.2 3052 (Signal: USB3.2)
	SIM	1 x Nano SIM slot 1 x eSIM (Optional)
	TPM (Optional)	1 x TPM 2.0
Storage	M.2	1 x M.2 2280 (Signal: PCIe x4) pre-installed 128G SSD
	SD Card	1 x Micro SD
Power	Mode	AT
	Input Voltage	19 ~ 36 V _{DC}
Environment	Operating Temperature	-25 ~ 70 °C with 0.7 m/s airflow
	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)	160 x 160 x 70 mm (6.3" x 6.3" x 2.76")
	Weight	2.05 kg (w/o packing material)
	Installation	Desktop
BSP	Jetpack	JP6.2 or above
Certifications		CE/FCC/UKCA/CB/UL/BSMI/CCC (No RED certification)

Dimensions

Unit: mm



Ordering Information

Part Number	NVIDIA Module	NVIDIA Module Memory	NVIDIA Module eMMC	NVMe**	BSP version	Super mode support
MIC-712P-ON3A1	Orin Nano	8GB	N/A	128GB	Jetpack 6.2	Yes
MIC-712P-ON2A1	Orin Nano	4GB	N/A	128GB	Jetpack 6.2	Yes

** The system BSP will be pre-installed in a 128GB NVMe M.2 SSD.

Packing List

Part Number	Description	Quantity
MIC-712P-0X	MIC-712 Fanless system	1
1652002202	Power connector - 2-pin	1
1700023619-01	Micro USB cable for System recovery	1
1930005673-11	Screw M3x4.5L for Peripheral	2
1960095312N001	Mounting Bracket	2
1930007979	Screw for mounting bracket	4

Optional

Part Number	Description
XMIC-FSP230-AAAN3	ADP A/D 100-240V 230W 24V C14 TERMINAL BLOCK 2P
1702002600	Power Cord UL 3P 15A 125V C13 183 cm (US)
1702002605	Power Cord EU 3P 10A 250V C13 183cm (EU)
1702031801	Power Cord BSI 3P 10A 250V C13 183cm (UK)
1700029019-01	Power Cord (PSE/BSMI), 3-pin, 7A, 125V, 1.8 M, DAC-ST01
1700000596-11	Power Cord CCC 3P 10A 250V C13 183cm (China)
PCA-TPMSPI-00A1	PCA-TPMSPI-00A1
1700027920-01	Audio port cable (1 x Line-In + 1 x Mic)