

MIC-713S-0X

AI Solution Kit Based on NVIDIA® Jetson Orin™ NX



Features

- Open-frame solution kit design
- Embedded with NVIDIA® Jetson Orin™ NX up to 157 TOPS
- Supports 5 x GbE, 6 x USB 3.2 Gen 2
- 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

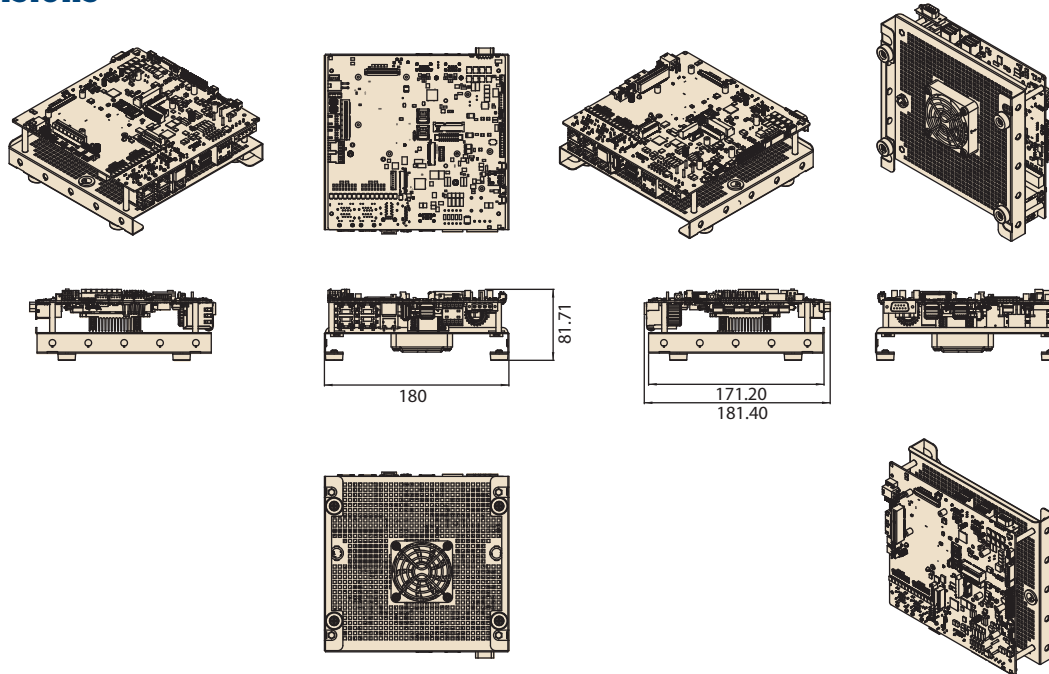
Specifications

		NVIDIA® Jetson Orin™ NX
Processor System	CPU	16GB: 8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 8GB: 6-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU
	GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores
	Memory	16GB: 16GB LPDDR5 8GB: 8GB LPDDR5
	Flash	-
I/O	Ethernet	5 x 10/100/1000 Mbps
	Display	HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	External: 6 x USB 3.2 Gen 2
	Digital I/O	4-ch DI, 4-ch DO
	Serial Port	2 x RS-232/422/485 (On-board pin header)
	CANBus	1 x CAN FD (5M)
	OTG USB	1 x Micro USB
Expansion	PCIe	1 x PCIe x4 slot (PCIe x4 link, Gen 4)
	Mini PCIe	1 x mPCIe (Signal: PCIe + USB 2.0)
	M.2	1 x M.2 3052 (Signal: USB)
	SIM	2 x Nano SIM slots
	TPM (Optional)	1 x TPM 2.0
	GMSL (Optional)	1 x MIPI connector for GMSL video capture card
Storage	M.2	1 x M.2 2280 (Signal: PCIe x1, Gen 4)
	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	AT
	Input Voltage	9 ~ 36 V _{DC}
Environment	Operating Temperature*	-10 ~ 60 °C with 0.7 m/s airflow (-10~50°C with MAXN_SUPER)
	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)	181.4 x 180 x 81.71 mm (7.14" x 7.09" x 3.22")
	Weight	0.75 kg (1.65 lb)
	Installation	Desktop
BSP	Jetpack	Above 5.1
Certifications		CE/FCC (No RED certification)

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

Dimensions

Unit: mm



Ordering Information

Part Number	NVIDIA Module	NVIDIA Module Memory	Installed Jetpack version	NVMe**	Super mode support
MIC-713S-OX4B2	Orin NX	16GB	JP6.2	128GB pre installed	Yes
MIC-713S-OX3B2	Orin NX	8GB	JP6.2	128GB pre installed	Yes

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

Packing List

Part Number	Description	Quantity
MIC-713S-OX	MIC-713 Solution Kit	1
1652005204	DI/DO Terminal Block	2
1652003234	DC IN Terminal Block	1

Part Number	Description	Quantity
1700023619-01	Micro USB cable for System recovery	1
1930005673-11	Screw M3x4.5L for GMSL card	3
193A230600	POST F=M3x5L M=M3x5L B=5 H=6.5 Cu for GMSL (only for Bx version)	3

Ordering Information

Category	Part Number	Description	Quantity
Adapter	96PSA-A150W19P4-4	Power Adapter 100-240V 150W 19V C14	1
	1702002600	Power Cord UL 3P 15A 125V C13 183 cm (US)	1
Power cord	1702002605	Power Cord EU 3P 10A 250V C13 183cm (EU)	1
	1702031801	Power Cord BSI 3P 10A 250V C13 183cm (UK)	1
	1700020098	Power Cord SAA 3P 10A 250V C13 183cm (AU)	1
	1700029019-01	Power Cord (PSE/BSMI), 3-pin, 7A, 125V, 1.8 M	1
	1700000596-11	Power Cord CCC 3P 10A 250V C13 183cm (China)	1
	PCA-TPMSP1-00A1	PCA-TPMSP1-00A1	1
TPM	1700019968	COM port cable (2 ports)	1
Cable	1700027920-01	Audio port cable (1 x Line-In + 1 x Mic)	1
	MIC-FG-4G2C1	4ch GMSL Video Capture Card	1
GMSL	1751000805-01	RF Cable FAKRA-Z/F FAKRA-Z/F KS302 BLK L15M	by camera quantity
	EWM-W173H01E	Wi-Fi 6+BT 5.0 Module 2.4/5GHz Mini PCIe	1
Wifi	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
	AIW-356-DQ	5G Sub6+GNSS M.2 3052 Key B (by region)	1
5G	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
	1960065854N021	Bracket for idoor PCM series add-on module	1
Bracket	98R27130000	MIC-713 DIN rail kit	1
	98RV710AL00	Allxon OOB module (By optional chassis)	1
OOB	98917330010	MIC-733 PoE Board with package 96917330010	1
POE			