

MIC-735-IT

基于NVIDIA® IGX Thor™的边缘AI开发推理平台



特性

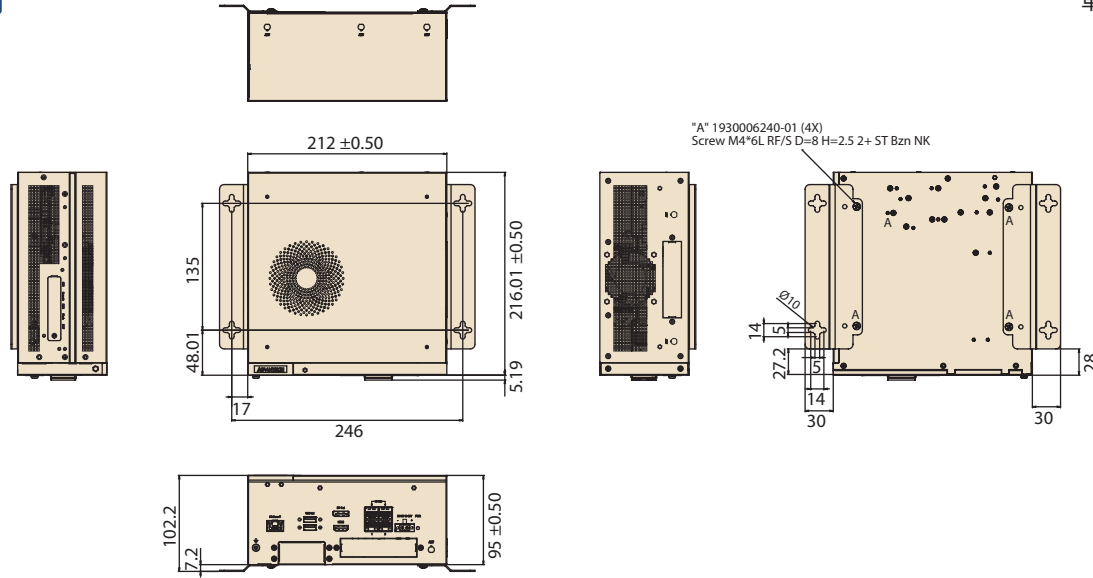
- 搭载NVIDIA IGX™ T5000，最高算力达2070 FP4 TFLOPS
- 支持4 × SFP28 (4 × 10 GbE)
- 支持1 × 5GbE, 2 × USB 3.2 Gen 2, 1 × M.2 Ekey (WiFi), 1 × M.2 B key (LTE/5G)
- 支持1 × 安全MCU (可选)
- 宽工作温度-30°C至+60°C, 坚固型设计
- 共支持8通道GMSL2.0, 带mini FAKRA连接器

规格

处理器		NVIDIA® IGX T5000™
	CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU
	GPU	2,560-core NVIDIA Blackwell architecture GPU with fifth generation Tensor Cores
以太网	内存	128 GB 256-bit LPDDR5X
	RJ45	1 x 10/100/1000/2500/5000 Mbps Ethernet
	SFP28	4 x 10 GbE
I/O	显示	1 x Display Port (Max. resolution 3840x2160 @ 60Hz) 1 x HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	2 x USB 3.2 Gen 2 (Type A)
	Flash USB	1 x USB 2.0 (Type C)
	控制	1 x USB 2.0 (Type C) console for debug (UART to USB)
	CANBUS	1 x CANBUS (header)
	GMSL (可选)	4 x MIPI 4 lanes (Support 8-ch GMSL2.0 with mini FAKRA connectors)
	SIM card	1 x Nano SIM on side of board
扩展	M.2 E Key	1 x M.2 2230 Slot (E-Key) (Signal: PCIe x1 + USB2.0)
	M.2 B Key	1 x M.2 3052 Slot (B-Key) (Signal: USB 3.0 + USB 2.0)
	Mini PCIe	1 x mPCIe Slot (Signal: PCIe + USB 2.0)
存储	M.2 M Key	1 x 2242 M-key NVMe (PCIe4) (pre-installed 512GB SSD on A1 SKU) 1 x Onboard UFS to support Safety MCU application
电源	模式	AT
	输入电压	19~36 VDC
	内部排针	3 x SMART FAN
工作环境	工作温度	-30°C to + 60°C with 0.7 m/s airflow
	工作湿度	95% @ 40 °C (非冷凝)
	振动	3Grms @ 5 ~ 500 Hz, random, 1 hr/axis
	冲击	10G / 11 ms
安全	安全MCU模块 (可选)	1 x SMCU module with Renesas SMCU RH850/U2A16 (board to board connector), default shipping without Safety MCU module
物理特性	尺寸 (宽 × 深 × 高)	System: 212 x 216 x 95 mm
	重量	2.8 kg
	安装	Desktop / Wall mount / DIN rail
BSP	IGX OS	IGX OS 2.0 (iGPU mode)
认证		CE/FCC Class A /UKCA (No RED certification)

尺寸

单位: mm



订购信息

料号	NVIDIA 模块	内存	eMMC	NVMe	已安装的 BSP 版本
MIC-735-IT7A1	NVIDIA® IGX T5000™	128 GB	NA	512 GB Pre-installed	IGX OS 2.0 (iGPU mode)
MIC-735-IT7A2	NVIDIA® IGX T5000™	128 GB	NA	NA	IGX OS 2.0 (iGPU mode)

包装清单

料号	描述	数量	料号	描述	数量
MIC-735-IT	AI Inference Developer Kit	1	1990040296N010	Thermal pad for 5G Module	1
1700030739-01	M cable USB-A 9P(M)/USB-C 24P(M) 30cm	1	1990033689N000	Thermal pad for Wifi Module	1
1652002202	Plug-in Block 2P for power	1	1990011336N000	Thermal pad for NVMe	1
1960116156N101	Wall mount BKT	2	1930005673-11	Screws for 5G/ WIFI Module	2
1930006240-01	Screw M4*6L RF/S D=8 H=2.5 2+ ST Bzn NK	4	1990019482N010	Thermal pad for GMSL	2
SQF-C4MV2-512GDEDE	SQF M.2 2242 720-D 512G 3D TLC BiCS5 (-40~85°C)	1			

可选配件

	料号	描述	数量
SSD	SQF-C4MV2-512GDEDE	SQF PCIe/NVMe Gen.3 M.2 2242 OPAL 720-D 512G 3D TLC BiCS5 (-40~85°C)	1
	SQF-C4MV4-1TDEDE	SQF PCIe/NVMe Gen.3 M.2 2242 OPAL 720-D 1T 3D TLC BiCS5 (-40~85°C)	1
	96FD42-P1TB-TS	SSSTC M.2 2242 1TB NVMe G4 DRAMLESS SSD TLC (0°C ~70°C)	1
	SQF-C4MV4-2TDEDE	SQF M.2 2242 720-D 2T 3D TLC BiCS5 (-40~85°C)	1
GMSL2 frame grabber	MIC-FG-8G2C1	8CH GMSL2 frame grabber with mini FAKRA	1
	1751000758-01	RF Cable MINI FAKRA B-Z/F FAKRA-Z/M 1x4 BLK L300	1 to 4 cameras
	1751000805-01	Cable Ant. FAKRA-Z/F FAKRA-Z/F KS302 BLK L15M	1 (by camera quantity)
	1700026907-01	Cable 1x4P-2.0/1x4P-2.0 10CM (Internal power cable for GMSL)	1
Wifi	96PSA-A84W12V1-4	A/D 100-240V 84W 12V C14 DC JACK 62368 (External power supply for GMSL)	1
	EWM-W179M201E	Wi-Fi 6 + BT Module M.2 Key A/E	1
	1751000620-01	Cable Ant. SMA/F-R MHF4L/113 BLK L300mm (Wi-Fi)	2
	1751000460-01	Dipole Ant. Wi-Fi 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
	1751000623-01	Cable Ant. SMA/F MHF4L/113 BLK L300mm (5G)	4
	1750009372-01	Ant.SMA/M 90/180 5G BLK 167mm RG178 (5G)	4
Power adapter	XMIC-FSP230-AAAN3	ADP A/D 100-240V 230W 24V C14 TERMINAL BLOCK 2P	1
Power Cord	1702002600	Power Cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83 M	1
	1700029019-01	Power Cord (PSE/BSMI), 3-pin, 7A, 125V, 1.8 M, DAC-ST01	1
	1702002605	Power Cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90 D	1
Safety Module	98920735D10	Safety MCU Module	1
	1960120622N000	Din-Rail BKT for Powder 432C	1
Din rail kit	1950016395T108	1950016395T108	2
	1930004789	Screw M3x6L S/S D=5 H=1 (2+) ST Bzn NK	6