

MIC-742-AT

搭载 NVIDIA® Jetson Thor™的边缘AI推理平台



特性

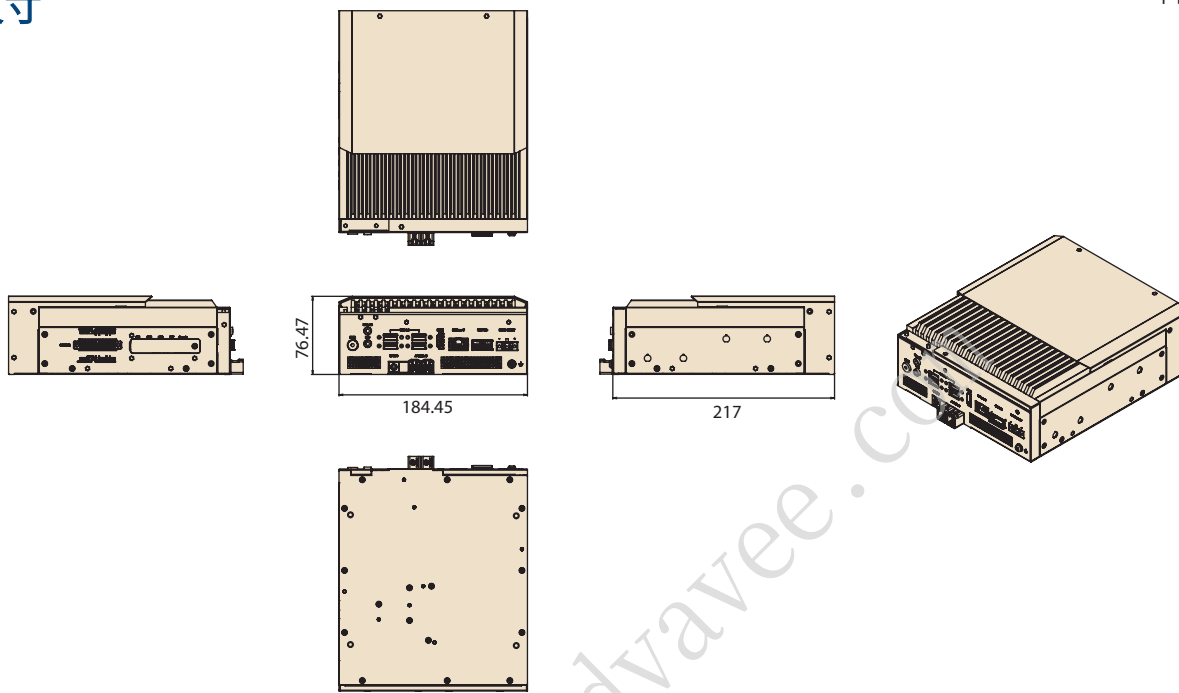
- 搭载 NVIDIA® Jetson T5000™ / Jetson T4000™，算力高达 2070 TFLOPS (FP4)
- 支持 1 路 QSFP28 (T5000 : 4 x 25GbE / T4000 : 3 x 25GbE)
- 支持 1 路 5GbE、4 个 USB 3.2 Gen 2、1 个 M.2 AEkey (WiFi)、1 个 M.2 Bkey (LTE)
- 支持 4 路 CANbus、1 路 I2C
- 支持总计 8 通道 GMSL2.0，采用 mini FAKRA 连接器

规格

处理器		NVIDIA® Jetson T5000™ / Jetson T4000™
	CPU	Jetson T5000: 14-core Arm® Neoverse V3AE (64-bit) SMP CPU architecture L1 Cache (I, D) per core: 64KB + 64KB, L2 1MB, L3 16MB Jetson T4000: 12-core Arm® Neoverse V3AE (64-bit) SMP CPU architecture L1 Cache (I, D) per core: 64KB + 64KB, L2 1MB, L3 16MB
	GPU	Jetson T5000: 2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Jetson T4000: 1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores
以太网	内存	Jetson T5000: 128GB LPDDR5X Jetson T4000: 64GB LPDDR5X
	RJ45	1 x 10/100/1000/2500/5000 Mbps Ethernet
	QSFP28	Jetson T5000: 4 x 25GbE Jetson T4000: 3 x 25GbE
I/O	显示	HDMI (Max. resolution 3840x2160 @ 60Hz)
	USB	4 x USB 3.2 Gen 2
	OTG USB	1 x Micro USB
	控制	1 x microUSB console for debug (UART to USB)
	Audio	1 x audio speaker out, MIC in on board
	CANbus	4 x CAN FD (T5000 only)
	GMSL (可选)	4 x MIPI 4 lanes (支持 8 通道 GMSL2.0，采用 mini FAKRA 连接器)
	I2C	1 x I2C
	SIM card	1 x Nano SIM 位于板卡侧面
扩展	M.2 Ekey	1 x 2230 E-key (Signal: PCIe1 + USB2.0)
	M.2 Bkey	1 x 3052/3042 B-key (Signal: USB3.0 + USB2.0)
	SATA	2 x SATA connector
	TPM	1 x TPM (板载)
存储	M.2 M.key	1 x 2280 M-key NVMe (PCIe4) (pre-installed 1T SSD on A1 SKU)
电源	电源	Power input: 19-36V
	电源类型	Terminal Block 2 Pin
	内置排针	3 x SMART FAN
工作环境	工作温度	-10 ~ 60 °C with 0.7 m/s air flow
	电源类型	95% @ 40 °C (非冷凝)
	内置排针	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis
物理特性	尺寸 (宽 x 深 x 高)	217 x 76.4 x 184.5 mm
	重量	3kg
	安装	Wall mount/Din rail
操作系统		NVIDIA Jetpack™ 7.0
认证		CE/FCC/CCC/KCC/BSMI/UL (No RED certification)

尺寸

单位: mm



订购信息

料号	NVIDIA 模块	内存	eMMC	已安装的 Jetpack 版本	NVMe
MIC-742-AT7A1	NVIDIA® Jetson T5000™	128 GB	NA	JetPack 7.0	1TB Pre-installed
MIC-742-AT6A1	NVIDIA® Jetson T4000™	64 GB	NA	JetPack 7.0	1TB Pre-installed
MIC-742-AT7A2	NVIDIA® Jetson T5000™	128GB	NA	NA	NA
MIC-742-AT6A2	NVIDIA® Jetson T4000™	64GB	NA	NA	NA

包装清单

料号	描述	数量	料号	描述	数量
MIC-742-AT	边缘AI开发板	1	1960116156N001	Mounting Bracket for MIC-742	2
1700023619-01	Micro USB cable for system recovery	1	1939000410	Screws for mounting bracket	4
1652008236-01	Terminal Plug 20P for CANbus	1	1990019482N010	Thermal pad for GMSL	2
1652002202	Plug-in Block 2P for power	1	1990040296N010	Thermal pad for 5G Module	1
			1930005673-11	Screws for 5G/ WIFI Module	2

可选配件

	料号	描述	数量
SSD	96FD80-P2TB-TS1	SSSTC M.2 2280 2TB NVMe G4x4 DRAMLESS SSD -25°C ~85°C	1
	MIC-FG-8G2C1	8CH GMSL2 frame grabber with mini FAKRA	1
GMSL2 图像采集卡	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
	EWM-W179M201E	Wi-Fi 6 + BT Module M.2 Key A/E	1
Wifi	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
	AIW-356-DQ	5G Sub6+GNSS M.2 3052 Key B (by region)	1
5G	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
电源适配器	XMIC-FSP230-AAAN3	ADP A/D 100-240V 230W 24V C14 TERMINAL BLOCK 2P	1
	1702002600	Power Cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83 M	1
电源线	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
DIN 导轨套件	98R2S742000	MIC-742 Din Rail Mounting kit	1