

AIR-075

AI Inference System Powered by NVIDIA® Jetson Thor™



Features

- Powered by NVIDIA Jetson T5000™ and Jetson T4000™, delivering up to 2070 TFLOPS FP4 inference performance.
- 19–36V wide power and –10–60 °C wide temp. supported
- Multiple I/O Expansion: 2x USB-C 3.2 Gen 2, 2x USB-A 3.2 Gen 1, 1x M.2 B Key (5G/LTE), and 2x M.2 E Key (NVMe / Wi-Fi).
- Supports 10GbE with Base-T connectors.
- Support up to 16x GMSL camera via AMO-0211 GMSL dongle.
- Support Advantech Edge AI SDK.



Specifications

Processor Module	Module	NVIDIA Jetson T5000	NVIDIA Jetson T4000
	CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU	12-core Arm® Neoverse®-V3AE 64-bit CPU
	GPU	2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores	1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores
	AI Performance	2070 TFLOPS (FP4—Sparse)	1200 TFLOPS (FP4—Sparse)
	TDP	40-130W	40-70W
	Memory	128GB 256-bit LPDDR5X , 273 GB/s	64GB 256-bit LPDDR5X , 273 GB/s
Ethernet	Interface	RJ-45 optional PoE support (IEEE 802.3 af)	
	PHY	Marvell AQR113	
	Speed	4x 10GbE Ethernet (10M/100M/1G/2.5G/10Gbps)	2x 10GbE Ethernet (10M/100M/1G/2.5G/10Gbps)
Display	HDMI	1x HDMI 2.1, Max 3840 x 2160 (4K) at 60 Hz	
	DP	1x DP 1.4a, 3840 x 2160(4K) at 60 Hz	
IO Ports	USB	1x USB 3.2 Gen1 Type C (USB 5 Gbps / DP1.4a) 1x USB 3.2 Gen1 Type C (USB 5 Gbps / DP1.4a) 2x USB 3.2 Gen2 Type A (USB 10 Gbps) 1x USB Micro B(RCM only)	
	CANBus	2x DB9	N/A
	DI/DO	1x DB9(8 bit)	
	COM	2x RS-232/RS-422/RS-485	
	Audio	Line-out, Mic-in	
Expansion	M.2	1x M.2 3052 B Key(5G/LTE) / 1x M.2 2230 E Key (WIFI/BT)	
Others	TPM	TPM2.0 (Optional)	
Storage	M.2	1 x M.2 2280 M Key (NVME) /1x M.2 2242 M Key (NVME)	
Power	Power Input	19–36V DC input	
	Power Type	ATX/AT mode, ATX default	
Environment	Op. Temp	-10 ~ 55°C (non-POE) / -10 ~ 50°C (POE) with 0.7 m/s air flow	-10 ~ 60°C (non-POE) / -10 ~ 55°C (POE) with 0.7 m/s air flow
	Op. Humidity	95% @ 40 °C (non-condensing)	
	Vibration	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis	
Mechanical	Dimensions (W x D x H)	235.8 x 174 x 59 mm	
	Weight	TBD	
	Mounting Support	Wall mounting	
Operating System		Ubuntu 24.04 LTS with NVIDIA Jetpack™ 7.0	
Software Support	Software API	Edge AI SDK compatible	
Certifications	EMC/Safety	CE/FCC Class B, CB, UL, CCC and BSMI (No RED Certificate)	