

EPC-T5294

NVIDIA® Jetson Thor™ AI System

Preliminary



Features

- Accelerated by NVIDIA Jetson T5000™
- Up to 2070 TFLOPS (FP4)
- High speed transmission 4x 25GbE and 1x 5GbE
- Supports 2xCOM, 8-bit DIO and CANBus
- Supports NVIDIA JetPack™ 7.0
- TPM 2.0 onboard for security
- Supports Advantech Edge AI SDK



Specifications

Processor System	NVIDIA Jetson Thor Module	NVIDIA Jetson T5000
	CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU
	GPU	2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores
	AI Performance	up to 2070 TFLOPS (FP4)
	TDP	40-130W
	Memory	128GB
Ethernet	Interface	1x RJ45, 1x QSFP28
	Speed	1x 5GbE, 4x 25GbE
Display	HDMI	1 x HDMI 2.1, max. 7680x4320 (8K) 30Hz
	DP	1 x DP 1.4a, max 7680x4320 (8K) 30Hz
IO Ports	USB Type A	2 x USB 3.2 Type A
	USB Type C	1 x Type C USB (5V/3A 15W DP alt mode supported)
	CANBus	8 bit, DB9
	DI/DO	8 bit, DB9
	COM	2x RS232/485
	GMSL	2x mini FAKRA 4P
Expansion	M.2 E key	1 x 2230
	M.2 B key	1 x 3052 (PCIex1, USB, SIM)
	M.2 M key	1 x 2280
Others	TPM	TPM2.0 on board
Storage	M.2 M key	1 x 2280
Power	Power Supply voltage	24V (± 10%)
	Power Type	ATX/AT mode, ATX default
Environment	Operational Temperature	-10 ~ 50°C with 0.7 m/s air flow
	Operating Humidity	95% @ 40 °C (non-condensing)
	Vibration	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis
Mechanical	Dimensions (W x D x H)	225 x 174 x 65 mm
	Weight	TBD
	Mounting Support	Wall mounting
Operating System		Ubuntu 24.04 LTS with NVIDIA JetPack 7.0
Software Support	AI tool	Advantech Edge AI SDK
Certifications	EMC/Safety	CE/FCC Class B, CB, UL, CCC and BSMI (No RED Certificate)