

EPC-T5294

AI System Powered by NVIDIA® Jetson Thor™

Preliminary



Features

- Powered by NVIDIA Jetson T5000™ and Jetson T4000™
- 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

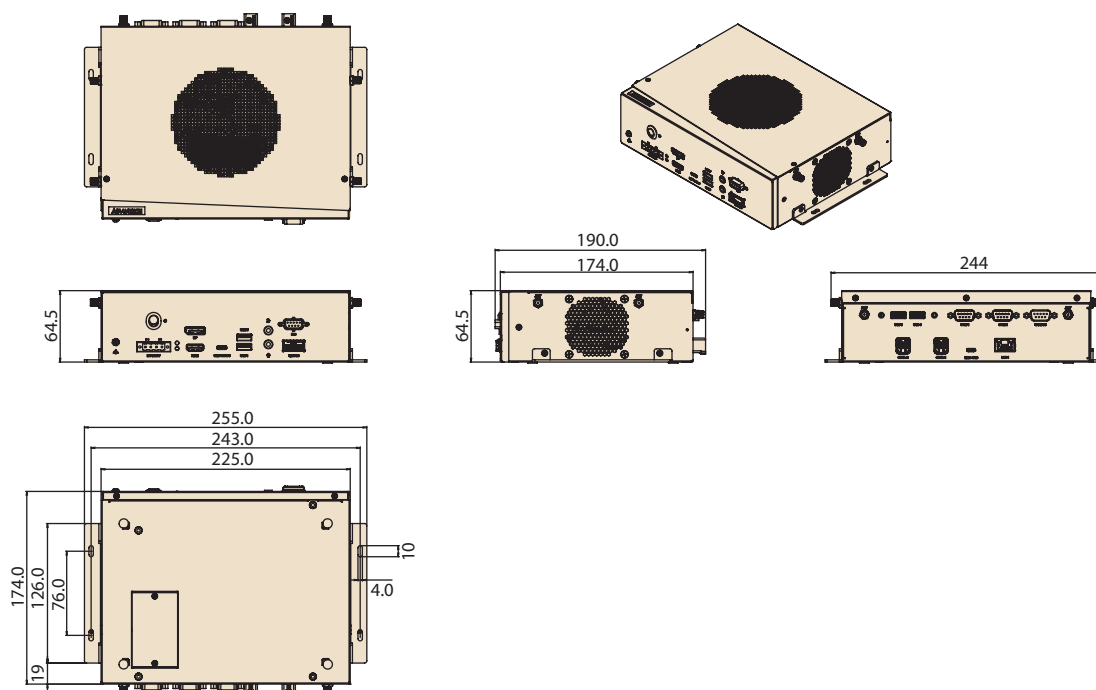
Specifications

Processor System	NVIDIA Jetson Thor Module	NVIDIA Jetson T5000	NVIDIA Jetson T4000
	CPU	14-core Arm® Neoverse®-V3AE 64-bit CPU	12-core Arm® Neoverse®-V3AE 64-bit
	GPU	2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU with 10 TPCs	1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 6 TPCs
	AI Performance	up to 2070 TFLOPS (FP4—Sparse)	1200 TFLOPS (FP4—Sparse)
	TDP	130W	75W
Memory		128GB LPDDR5X	64 GB 256-bit LPDDR5X 273 GB/s
Ethernet	Interface	1 x RJ45, 1 x QSFP28	RJ-45
	Speed	1 x 5GbE, 4 x 25GbE*	1 x 2.5GbE
Display	HDMI	1 x HDMI 2.1, max. 7680x4320 (8K) 30Hz	1 x HDMI 2.1, max. 7680x4320 (8K) 30Hz
	DP	1 x DP 1.4a, max 7680x4320 (8K) 30Hz	1 x DP 1.4a, max 7680x4320 (8K) 30Hz
IO Ports	USB Type A	2 x USB 3.2 Gen2 Type A	2 x USB 3.2 Gen2 Type A
	USB Type C	1 x Type C USB3.2 Gen2 (5V/3A 15W DP alt mode supported)	1 x Type C USB3.2 Gen2 (5V/3A 15W DP alt mode supported)
	CANBus	1, DP9	1, DP9
	DI/DO	8 bit, DB9	8 bit, DB9
	COM	2 x RS232/485	2 x RS232/485
	GMSL	2 x mini FAKRA 4P	2 x mini FAKRA 4P
Expansion	M.2 E key	1 x 2230 (PCIex1)	1 x 2230 (PCIex1)
	M.2 B key	1 x 3052 (PCIex1, USB)	1 x 3052 (PCIex1, USB)
	M.2 M key (Storage)	1 x 2280 (PCIex4)	1 x 2280 (PCIex4)
Others	TPM	TPM2.0 on board	TPM2.0 on board
Power	Power Supply voltage	24V	24V
	Power Type	ATX/AT mode, ATX default	ATX/AT mode, ATX default
Environment	Operational Temperature	-15 ~ 40°C with 0.7 m/s air flow	-15 ~ 40°C with 0.7 m/s air flow
	Operating Humidity	95% @ 40 °C (non-condensing)	95% @ 40 °C (non-condensing)
	Vibration	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis
Mechanical	Dimensions (W x D x H)	225 x 174 x 65 mm	225 x 174 x 65 mm
	Weight	1.9 kg	1.9 kg
	Mounting Support	Wall mounting	Wall mounting
Operating System		Ubuntu 24.04 LTS with NVIDIA JetPack 7.0	Ubuntu 24.04 LTS with NVIDIA JetPack 7.0
Certifications	EMC/Safety	CE/FCC Class B, CB, UL, CCC and BSMI (No RED Certificate)	CE/FCC Class B, CB, UL, CCC and BSMI (No RED Certificate)

* Jetpack 7.0 supports 4 x 10GbE, Jetpack 7.1 supports 4 x 25GbE

Dimensions

Unit: mm [inch]



Front View



Rear View



Ordering Information

Model Name	Part Number	Module	NVMe	Adaptor	Heatsink	System Fan	Made In
EPC-T5294	EPC-T52940A-T5A1U	NVIDIA Jetson T5000	512GB	yes, 330W	yes	yes	Taiwan

Packing List

Part Number	Description
1700030518-01	Canbus cable
1700019967-01	DIO cable
1700035845-01	Com cable (10cm)
1960104347N001	Wall Mounting Kit
1930001241	Screws for wall mounting kit
2046529400	Simplified Chinese manual
2190000902	CARDBOARD-WARRANTY REV. A2

Optional Accessories

Part Number	Description
1654014647-01	QSPF28 cable
1751000758-01*	FAKRA (1 to 4) cable
1751000759-01**	FAKRA (1 to 1) cable
96ICAM-290	MIPI 2D Camera
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, EU type
1702031801	Power cable 3-pin 183cm, UK type
1700000237	Power cable, 3-Pin 183cm, PSE type

* Connect 1751000758-01 to FAKRA on EPC-T5294

** Link 1751000759-01 to 1751000758-01 and the cameras