

EPC-T5294

AI System Powered by NVIDIA® Jetson Thor™

Preliminary



Features

- Powered by NVIDIA Jetson T5000™ and Jetson T4000™
- Up to 2070 TFLOPS (FP4—Sparse)
- High speed transmission 4x 10GbE and 1x 5GbE
- Supports 2xCOM, 8-bit DIO and canbus
- Supports NVIDIA JetPack™ 7.0
- TPM 2.0 onboard for security

Specifications

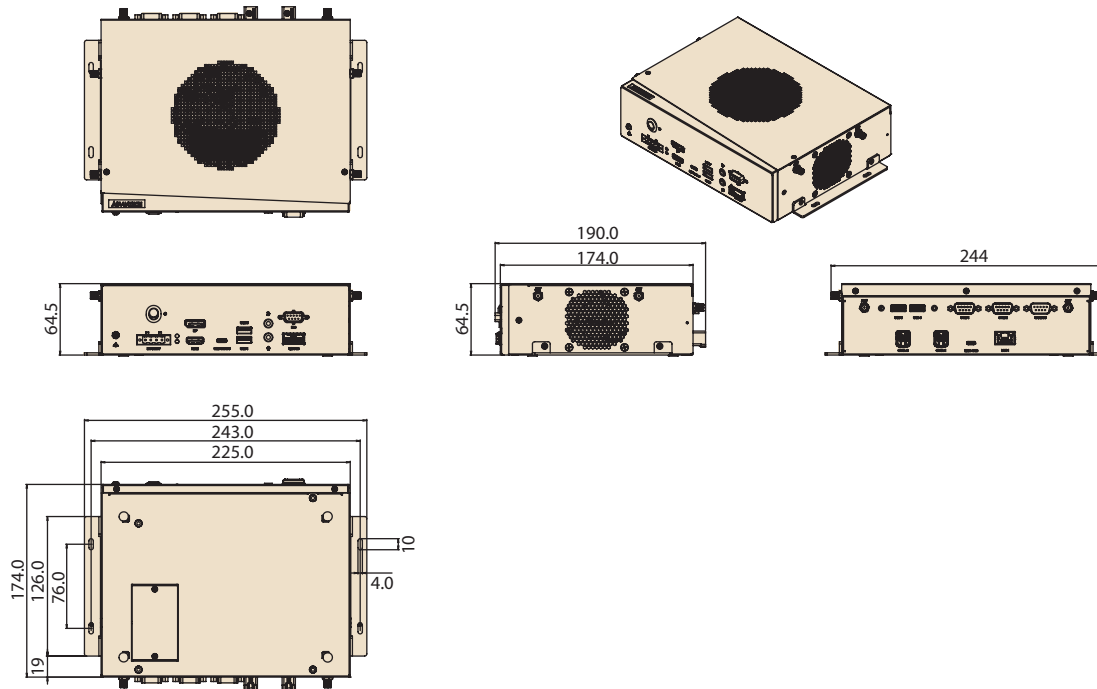
	NVIDIA Jetson Thor Module	NVIDIA Jetson T5000	NVIDIA Jetson T4000**
Processor System	CPU	NVIDIA Jetson T5000 14-core Arm® Neoverse®-V3AE 64-bit CPU	NVIDIA Jetson T4000** 12-core Arm® Neoverse®-V3AE 64-bit
	GPU	2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU 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 Up to 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	4 x USB 3.2 Gen2 Type A	4 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	2 x RS232
	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 and BSMI (No RED Certificate)	CE/FCC Class B, CB, UL and BSMI (No RED Certificate)

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

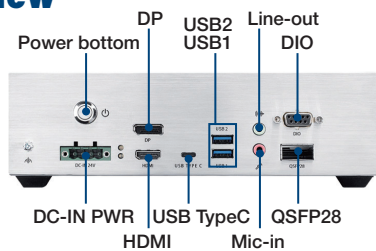
** The MP timeline for NVIDIA Jetson T4000 is currently TBD

Dimensions

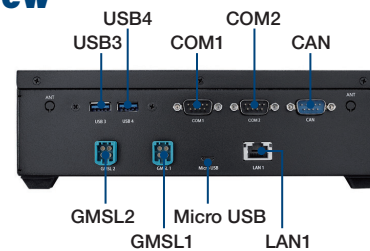
Unit: mm [inch]



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
1960104347N001	Wall Mounting Kit
1930001241	Screws for wall mounting kit
2046529400	Simplified Chinese manual
2190000902	CARDBOARD-WARRANTY REV. A2

Wireless Model & Optional Accessories

Part Number	Description
1700036550-01	QSFP28 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

* Connect 1751000758-01 to FAKRA on EPC-T5294

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

Wireless Model & Optional Accessories

Part Number	Description
1702002605	Power cable 3-pin 183cm, EU type
1702031801	Power cable 3-pin 183cm, UK type
1700000237	Power cable, 3-Pin 183cm, PSE type
1700030518-01	Canbus cable
1700019967-01	DIO cable
1700035845-01	Com cable (10cm)
AIW-356DQ-E01	5G module
1750009372-01	Antenna for 5G module (Qty:4)
1751000649-01	RF cable (Qty:1, connect to WWAN module, length:100mm)
1751000633-01	RF cable (Qty:2,connect to WWAN module, length:200mm)
1751000623-01	RF cable (Qty:1, connect to WWAN module, length:300mm)
AIW-169BR-GX1	Wi-Fi 6E module
1751000460-01	Antenna for Wi-Fi 6E module (Qty:2)
1751000622-01	RF cable (Qty:1, connect to WLAN module, length:150mm)
1751000620-01	RF cable (Qty:1, connect to WLAN module, length:300mm)

Note: Refer to the EPC-T5294 User Manual for details on the wireless module assembly.