EAC-7000 NVIDIA Jetson Thor™ Computer

Next-Generation Edge AI Performance
Powered by NVIDIA® Jetson Thor™

Feature Highlights

- Powered by NVIDIA® Jetson Thor™, delivering next-generation edge AI performance
- NVIDIA Blackwell GPU architecture with advanced Tensor Core acceleration
- Multi-Gigabit Ethernet with optional PoE+ for connected devices
- Supports GMSL 1/2 cameras for high-bandwidth vision applications
- Integrated CAN-FD and industrial I/O for system control and communication
- Optional 5G, LTE, Wi-Fi, and satellite connectivity for remote deployment

Compact AI Edge Platform | High-Bandwidtch Connectivity
Expanded Camera Support | Intelligent Remote Management

The EAC-7000 Rugged Industrial Jetson Thor Computer delivers advanced edge AI performance with up to 2,070 FP4 TFLOPS of compute. Built on the NVIDIA® Jetson Thor™ platform and powered by the NVIDIA® Jetson T5000™ module, it combines a 14-core Arm® Neoverse™ V3AE CPU with a 2,650-core NVIDIA Blackwell™ GPU featuring 96 Tensor Cores to support next-generation AI processing at the edge. The EAC-7000 Series includes extensive I/O and expansion capabilities, with support for up to 16 GMSL 1/2 automotive cameras, multiple 10GigE, 2.5GigE, and Gigabit Ethernet ports with PoE+, isolated CAN-FD, dual RS-232/422/485 ports, USB 3.1, and 16-bit isolated digital I/O, making it well suited for robotics, autonomous systems, and advanced edge AI applications.

Specifications

System

CPU	**Jetson T5000:** 14-core Arm Neoverse V3AE 64-bit CPU **Jetson T4000:** 12-core Arm Neoverse V3AE 64-bit CPU
GPU	**Jetson T5000:** 2,650-core Blackwell, 96 Tensor Cores **Jetson T4000:** 1,536-core Blackwell, 64 Tensor Cores
Memory	**Jetson T5000:** 128GB 256-bit LPDDR5X DRAM **Jetson T4000:** 64GB 256-bit LPDDR5X DRAM
Software Support	- Linux Ubuntu 24.04 - NVIDIA® JetPack™ 7.0 or later

I/O Interfaces

Button	- 1 Power Button - 1 Force Recovery Button - 1 Reset Button
USB	- 4 USB 3.1 Type-A - 1 x USB Type-C (console debug) - 1 x USB Type-C (OS flashing)
Serial	2 COM RS-232/422/485
CAN Bus	4 x Isolated CAN-FD
DIO	16 Isolated DIO (8 DI, 8 DO)
LED	Power, SSD
SIM Card	2 Nano SIM Card Socket
Antenna	8 Antenna for 5G/WiFi/4G/LTE/GPRS/UMTS

Expansion

M.2	- 1 M.2 Key B Socket for dual SIM (3042/3052, USB 3.0) - 1 M.2 Key B Socket (3042/3052/2280, PCIe x2) - 1 M.2 Key E Socket (2230/3042, PCIe x1/USB 2.0/UART3)

Graphics

Interface	2 HDMI, Up to 7680 x 4320 @30Hz
Video Encode	H.265: 6x 4Kp60,12x 4Kp30, 24x 1080p60, 50x 1080p30 H.264: 48x 1080p30, 6x 4Kp60
Video Decode	H.265: 4x 8Kp30, 10x 4Kp60, 22x 4Kp30, 46x 1080p60, 92x 1080p30 H.264: 82x 1080p30, 4x 4Kp60

Camera

GMSL	**EAC-7100:** 8x Fakra-Z (GMSL 1/2) **EAC-7200:** 4 x quad mini Fakra (GMSL 1/2)

Storage

M.2	1 M.2 Key M Socket (2280, PCIe x4)

Ethernet

LAN 1 to LAN 2	2.5GigE LAN RJ45 Connector by Intel i226
LAN 3 to LAN 4	**EAC-7200/7400:** 10GigE LAN RJ45 Connector by Marvell x3610

PoE+

LAN 3 to LAN 6	**EAC-7300:** IEEE 802.3at (25.5W/48V) 1GigE PoE+ RJ45 LAN
LAN 5 to LAN 6	**EAC-7400:** IEEE 802.3at (25.5W/48V) 10GigE PoE+ RJ45 LAN

*All Ethernet port optional M12 X-coded Connector
*Single port up to 25W, 4 port total 60W

Power

Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Remote Switch	3 pin remote switch
Ignition Control	16-mode Software Ignition Control

Optional

IMU	3-axis accelerometer and 3-axis gyroscope, I2C interface
Magnetometer	3-axis magnetic sensor, I2C interface
Altimeter	Absolute barometric pressure sensor, I2C interface
TPM	STMicroelectronics ST33KTPM2I
OOB	Out-of-band management by Nuvoton NUC980

Mechanical

Dimensions	260 mm x 215 mm x 88 mm (10.24" x 8.46" x 3.46")
Weight	5.5 kg (12.13 lb)
Mounting	Wallmount

Environment

Operating Temp. (with 0.63 m/s air flow)	**77W TDP Mode Fanless:** -20°C to 45°C (-4°F to 113°F) **77W TDP Mode Fan:** -20°C to 70°C (-4°F to 158°F) **130W TDP Mode Fan:** -20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
EMC	CE, FCC, EN50155, EN50121-3-2
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.6, Procedure I, Category 4

Order Information

Model Name	Platform	RAM	LAN			PoE+	GMSL	Iso. CAN	SIM
			1G	2.5G	10G				
EAC-7000-SXXX*	NVIDIA Jetson T5000 / T4000	128GB (T5000) 64GB (T4000)	-	2	-	-	-	4	2
EAC-7100-SXXX*			-	2	-	-	8	4	2
EAC-7200-SXXX*			-	2	2	-	16	4	2
EAC-7300-SXXX*			4	2	-	4 (1Gb)	-	4	2
EAC-7400-SXXX*			-	2	4	2 (10Gb)	-	4	2

Available with Jetson T5000 (128GB) or T4000 (64GB). A NVMe SSD is included in default. Please refer to NVMe SSD list to select NVMe SSD capacity.

Dimensions & Drawings

Unit : mm (inch)

EAC-7200