

EAC

7000



NVIDIA® Jetson Thor™ Embedded AI Computing System



^ Humanoid Robots



- NVIDIA® Jetson T5000™ module, up to 2,070 FP4 TFLOPS
- NVIDIA Isaac™ Perceptor Software Stack for AI Robot Development on NVIDIA Isaac™ ROS
- NVIDIA Holoscan Sensor Bridge for low-latency various cameras and sensors data processing
- Up to 16 GMSL 1/2 automotive cameras with Fakra-Z
- Up to 4 10GigE, 2 2.5GigE, 4 GigE LAN with 4 PoE+
- 4 Isolated CAN-FD, 2 COM RS232/422/485, 4 USB 3.1, 16-bit Isolated DIO (8DI, 8DO)
- Multiple 5G/4G/LTE/WiFi/BT/GPRS/UMTS connections
- Device remote management by Allxon (Optional)

▼ AI-based Robots



^ Automated Agricultural Machinery



Vecow



Specifications

System

CPU	T5000: 14-core Arm® Neoverse™ V3AE 64-bit CPU
GPU	T5000: 2,650-core NVIDIA Blackwell™ GPU with 5th GEN 96 Tensor Cores
Memory	T5000: 128 GB 256-bit LPDDR5X DRAM
Software Support	- Linux Ubuntu 24.04 - NVIDIA JetPack™ 7.0

I/O Interface

Button	- 1 Power Button - 1 Force Recovery Button - 1 Reset Button
USB	- 4 USB 3.1 Type-A - 1 USB Type-C for console debug port - 1 USB Type-C for OS flash port
Serial	2 COM RS-232/422/485
CAN Bus	4 Isolated CAN Bus support Flexible Data-rate
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)
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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: 8 Fakra-Z connectors for GMSL 1/2 automotive cameras EAC-7200: 4 x4 mini Fakra connectors for GMSL 1/2 automotive cameras
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Storage

M.2	1 M.2 Key M Socket (2280, PCIe x4)
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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 ST33KTPM21
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

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Order Information

Model Name	Platform	RAM	LAN			PoE+	GMSL	Iso. CAN	SIM
			1Gb	2.5Gb	10Gb				
EAC-7000-R128-SXXX*	NVIDIA Jetson T5000	128GB	-	2	-	-	-	4	2
EAC-7100-R128-SXXX*		128GB	-	2	-	-	8	4	2
EAC-7200-R128-SXXX*		128GB	-	2	2	-	16	4	2
EAC-7300-R128-SXXX*		128GB	4	2	-	4 (1Gb)	-	4	2
EAC-7400-R128-SXXX*		128GB	-	2	4	2 (10Gb)	-	4	2

*A NVMe SSD is included in default. Please refer to NVMe SSD list to select NVMe SSD capacity.

Accessories

PWA-180WB1	PWA-180W1: 180W, 24V, 80V AC to 264V AC Power adapter 0C~+40C, Terminal Block
PWA-280WB-WT	PWA-280WB-WT: 280W, 24V, 85V AC to 264V AC, WT -30°C to +70°C with 3-pin Terminal Block
PWA-360WB-WT	PWA-360WB-WT: 360W, 24V, 85V AC to 264V AC, WT -30°C to +70°C with 3-pin Terminal Block
GMSL Camera Kit	GMSL Camera with Fakra-Z connector (EAC-7100/EAC-7200)
M.2 Storage Module	M.2 Key M/Key B PCIe Storage Module
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
RTK GPS Module	RTK GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)

EAC-7200

