

EAC-6000-OOB

NVIDIA® Jetson Orin™ NX Embedded AI Computing System



Features

- Small form factor NVIDIA® Jetson Orin™ NX supports up to 100 TOPS AI performance
- Advanced NVIDIA Ampere™ architecture with 1024 NVIDIA® CUDA® cores and 32 Tensor cores
- 2 GigE LAN, 3 USB 3.1, 2 COM RS-232/422/485
- Supports multiple 5G/4G/LTE/WiFi/BT/GPRS/UMTS connections
- 1 CAN Bus supports Flexible Data-rate, 7-bit GPIO
- DC 9V to 50V wide range power input, Ignition Power Control
- Support 24/7 secure remote monitoring, control, and Out-Of-Band management for disaster recovery empowered by Allxon



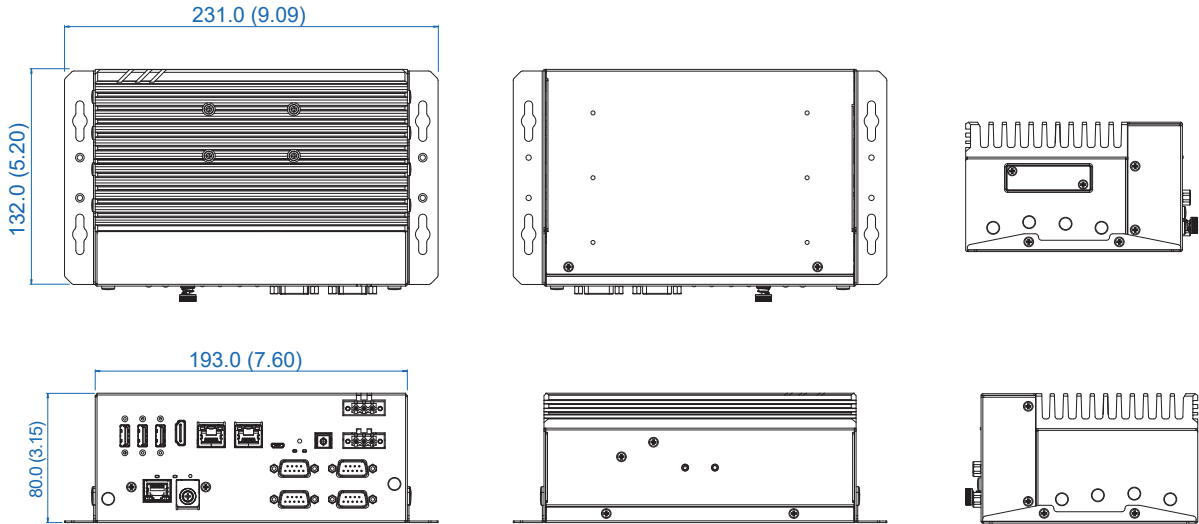
Specifications

System	
CPU	<ul style="list-style-type: none"> ▪ R16 : 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU ▪ R08 : 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
GPU	1024-core NVIDIA Ampere™ architecture GPU with 32 Tensor cores
DL Accelerator	<ul style="list-style-type: none"> ▪ R16 : 2x NVDLA Engines ▪ R08 : 1x NVDLA Engine
Memory	<ul style="list-style-type: none"> ▪ R16 : 1 16GB LPDDR5 DRAM ▪ R08 : 1 8GB LPDDR5 DRAM
Software Support	<ul style="list-style-type: none"> ▪ Linux ▪ NVIDIA JetPack SDK
I/O Interface	
USB	<ul style="list-style-type: none"> ▪ 1 USB 3.1 Gen 2 ▪ 2 USB 3.1
Serial	2 COM RS-232/422/485
CAN Bus	1 CAN Bus supports CAN-FD
GPIO	7-bit GPIO
Micro USB	<ul style="list-style-type: none"> ▪ 1 Micro USB Console Port ▪ 1 Micro USB Recovery Port
Button	<ul style="list-style-type: none"> ▪ 1 Power Button ▪ 1 Force Recovery Button ▪ 1 Reset Button
LED	Power, SSD
SIM	2 SIM Card Socket
Antenna	10 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS
Expansion	
M.2	<ul style="list-style-type: none"> ▪ 2 M.2 Key B Socket (3042/3052, USB3) ▪ 1 M.2 Key E Socket (2230, PCIe/USB)
Graphics	
Interface	1 HDMI : Up to 3840 x 2160 @60Hz
Video Encode	<ul style="list-style-type: none"> ▪ HEVC : 1x 4K @60, 3x 4K @30, 6x 1080p @60, 12x 1080p @30 ▪ H.264 : 1x 4K @60, 2x 4K @30, 5x 1080p @60, 11x 1080p @30
Video Decode	<ul style="list-style-type: none"> ▪ HEVC : Up to 1x 8K @30, 2x 4K @60, 4x 4K @30, 9x 1080p @60, 18x 1080p @30 ▪ H.264 : Up to 1x 4K @60, 2x 4K @30, 5x 1080p @60, 11x 1080p @30

Storage	
M.2	1 M.2 Key M 2280, up to 1TB NVMe SSD pre-installed
SD	1 Micro SD (External)
Ethernet	
LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector (Optional X-coded M12 connectors)
LAN 2	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector (Optional X-coded M12 Connectors)
Power	
Power Input	DC 9V to 50V
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16-mode Software Ignition Control
Remote Switch	3-pin Remote Switch Terminal Block
Out-of-Band Management	
MCU	Nuvoton NUC980
Interface	<ul style="list-style-type: none"> ▪ 1 10/100Mb Ethernet LAN, RJ45 Connector ▪ 1 Full-Size Mini PCIe Socket (USB) ▪ 1 Nano SIM
Remote Management	Support Remote Power ON/OFF, Reset and Power Cycling, Cloud Serial Console
Mechanical	
Dimensions	193 mm x 132 mm x 80 mm (7.6" x 5.2" x 3.15")
Weight	1.9 kg (4.19 lb)
Mounting	<ul style="list-style-type: none"> ▪ Wallmount ▪ DIN Rail (Optional)
Environment	
Operating Temperature	15W TDP Mode : -25°C to 70°C (-13°F to 158°F), with 0.63 m/s air flow 25W TDP Mode : -25°C to 55°C (-13°F to 131°F), with 0.63 m/s air flow
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @70°C
Shock	Operating, MIL-STD-810H, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810H, Method 514.8, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

Dimensions

Unit : mm/ inch



Order Information

EAC-6000-OOB-R08-SXXX*	EAC-6000, on-board 8GB RAM, pre-installed with up to 1TB NVMe SSD, 2 GigE LAN, 3 USB 3.1, 4 M.2, 2 COM RS-232/422/485, 2 SIM, 7 GPIO, 1 CAN Bus, Allxon Out-Of-Band Management
EAC-6000-OOB-R16-SXXX*	EAC-6000, on-board 16GB RAM, pre-installed with up to 1TB NVMe SSD, 2 GigE LAN, 3 USB 3.1, 4 M.2, 2 COM RS-232/422/485, 2 SIM, 7 GPIO, 1 CAN Bus, Allxon Out-Of-Band Management

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

NVMe SSD List

S128	128GB NVMe SSD
S256	256GB NVMe SSD
S512	512GB NVMe SSD
S01T	1TB NVMe SSD

Accessories

PWA-120W1	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
DIN-RAIL	DIN Rail Kit
5G Module	5G Module with Antenna
4G Module	4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna