EAC 3000

NVIDIA® Jetson AGX Xavier™ Edge AI Computing System

In-vehicle Computing

- Compact NVIDIA® Jetson AGX Xavier™ supports workstation-grade up to 32 TOPS AI performance with rich AI tools and workflows
- NVIDIA Volta architecture with 512 NVIDIA® CUDA® cores and 64 Tensor cores
- DC 9V to 50V wide range power input, Ignition Power Control
- 5 GigE LAN with 4 PoE+, 4 USB 3.0, 2 Digital Display
- Supports 8 GMSL2 automotive cameras with Fakra-Z
- 2 CAN Bus support Flexible Data-rate, 2 COM RS-232/422/485
- M.2 supports 5G/4G/LTE/WiFi/BT/GPS
- Support 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

Medical Image

Robotic Control

NVIDIA Partner

GMSL PoE CAN SW 9V~50V

Vecow

Specifications

System

CPU	8-core NVIDIA Carmel ARM® v8.2 64-bit CPU
GPU	NVIDIA Volta architecture with 512 NVIDIA® CUDA® cores and 64 Tensor cores
DL Accelerator	2x NVDLA Engines
Memory	1 LPDDR4x DRAM, Up to 32GB
Software Support	- Linux - NVIDIA JetPack SDK

I/O Interface

USB	4 USB 3.0 Type A
Serial	2 COM RS-232/422/485
CAN Bus	2 CAN Bus support CAN FD (Optional Isolation)
Micro USB	- 1 Micro USB console debug port - 1 Micro USB OS flash port
Button	- 1 Power Button - 1 Force Recovery Button - 1 Reset Button
LED	Power, HDD, 2 User Programmable
SIM	2 SIM Card Socket
Antenna	6 Antenna for WiFi/4G/5G/LTE/GPRS/UMTS

Expansion

M.2	- 1 M.2 Key B Socket (3042/3052, PCIe/USB3) - 1 M.2 Key E Socket (2230, PCIe/USB)

Graphics

Interface	2 Digital Display, up to 4Kx2K @30Hz
Video Encode	- HEVC : Up to 4x4K @60, 8x4K @30, 16x1080p @60, 32x1080p @30 - H.264 : Up to 4x4K @60, 8x4K @30, 14x1080p @60, 30x1080p @30
Video Decode	- HEVC : 2x8K @30, 6x4K @60, 12x4K@30, 26x1080p @60, 52x1080p @30 - H.264 : 4x4K @60, 8x4K @30, 16x1080p @60, 32x1080p @30

Camera

GMSL	8 Fakra-Z connectors for GMSL 1/GMSL 2 automotive cameras

Storage

M.2	1 M.2 Key M Socket (2280, PCIe x2)
eMMC	1 eMMC 5.1, 32GB
SD	1 Micro SD (External)

Ethernet

LAN 1	10/100/1000 Base-T Ethernet GigE LAN, RJ45 Connector

PoE

LAN 2 to LAN 5	IEEE 802.3at (25.5W/48V) GigE PoE+ LAN, RJ45 Connector

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

Mechanical

Dimensions	212.6mm x 149.0mm x 60.4mm (8.37" x 5.87" x 2.38")
Weight	2.4 kg (5.29 lb)
Mounting	- Wallmount - DIN Rail Mount (Optional)

Environment

Operating Temp.	**30W TDP Mode :** -20°C to 70°C (-4°F to 158°F), Fanless **MAX TDP Mode :** -20°C to 70°C (-4°F to 158°F), with Fan Sink
Storage Temp.	-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-810G, Method 516.7, Procedure I
Vibration	Operating, MIL-STD-810G, Method 514.7, Procedure I, Category 4
EMC	CE, FCC, EN50155, EN50121-3-2

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Order Information

Model Name	Platform	RAM	LAN	PoE+	USB 3.0	M.2	Serial	SIM	CAN	GMSL
EAC-3000-R32	Jetson AGX Xavier	32GB	5	4	4	3	2	2	2	8

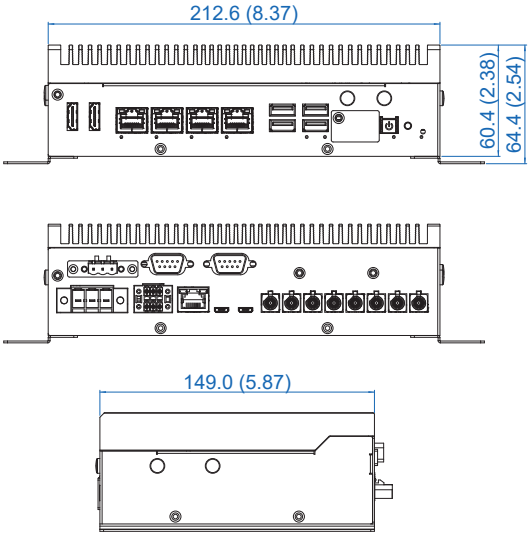
* EAC-3000F Series are Fan Sink Model for MAX TDP Mode

Accessories

PWA-160WB-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-180WB	180W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-280WB-WT	280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
VESA Mount	VESA Mounting Kit
DIN-RAIL	DIN Rail and VESA Mounting Kit
GMSL Camera Kit	GMSL Camera with Fakra-Z connector
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
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit : mm (inch)



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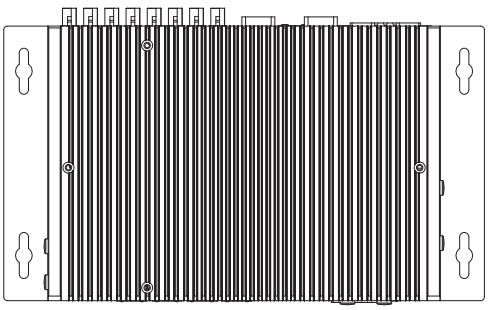

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