

eNVP-JAX-AI-V0008

Rugged Embedded Edge AI System
with NVIDIA® Jetson AGX Xavier™



Features

- Fanless AI edge embedded box PC
- 8-core NVIDIA Carmel Arm® v8.2 64-bit CPU
- 512 NVIDIA CUDA cores and 64 Tensor cores (Volta™ architecture)
- Onboard 32 GB 256-bit LPDDR4x 136.5 GB/s
- Supports Allxon OOB remote device management
- Supports 8 x PoE, 1 x GbE
- Supports 1 x M.2 M-key 2280 (for NVMe SSD)
- Supports 1 x M.2 B-key 3042/3052 (for 4G/5G module)
- Supports 1 x M.2 E-key 2230 (for Wi-Fi/BT module)
- Supports 2 x SATA III SSD, 1 x SD Card
- Supports 1 x GPS
- Supports 2 x RS-232
- Supports 8 x Alarm In, 8 x Alarm Out
- Supports 9 ~ 36 VDC wide-range input

Specifications

System	
AI Accelerator	NVIDIA® Jetson AGX Xavier™
CPU	8-core NVIDIA Carmel Arm® v8.2 64-bit CPU
GPU	512 NVIDIA CUDA cores and 64 Tensor cores (Volta™ architecture)
Memory	Onboard 32 GB 256-bit LPDDR4x (136.5 GB/s)
Storage	
Storage	32 GB eMMC 5.1
SATA	2 x SATA III SSD
SD Card	1 x SD Card
NVMe SSD	Supported (via Expansion)
Power	
Power Supply	9 ~ 36 VDC
Network	
Ethernet	1 x GbE
PoE	8 x PoE (10/100 MbE, Single: 30 W/ Total: 120 W)
Antenna	5 x ANT.
Wi-Fi/BT	Supported (via Expansion)
4G/5G	Supported (via Expansion)
GPS	Supported (via Expansion)
Expansion	
M.2	1 x M.2 M-key 2280 1 x M.2 E-key 2230 1 x M.2 B-key 3042/3052

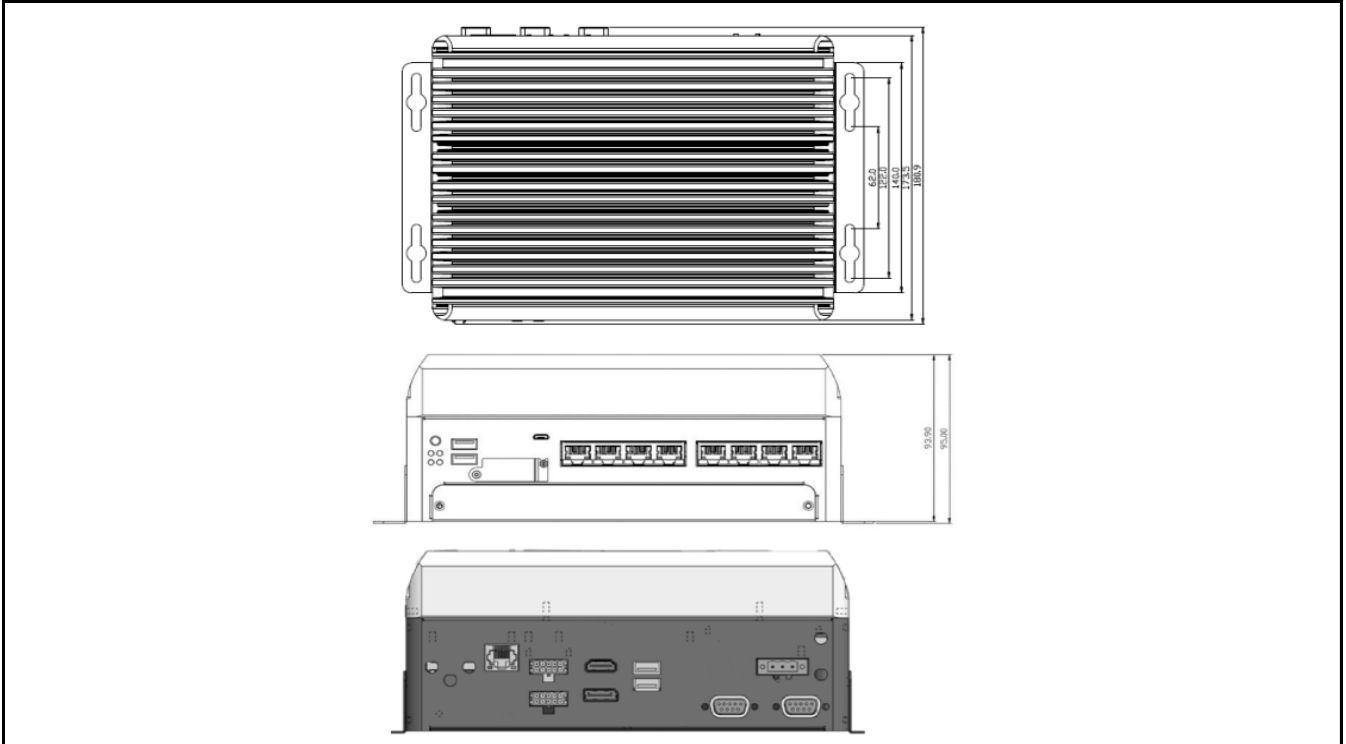
Interface	
Indicator	4 x LED (PWR/LAN/IGN/STR)
USB	2 x USB 3.0 2 x USB 2.0
OTG USB	1 x Micro USB (for Flash OS)
DIO	8 x Alarm In, 8 x Alarm Out
Display	1 x HDMI 1 x DisplayPort
Button	1 x PWR & Reset Switch 1 x PWR Input
Power	1 x PWR Input (3-pin terminal block)
COM	2 x RS-232
Others	--
General	
Dimensions	224 x 173.6 x 94 mm (8.81" x 6.83" x 3.7")
Weight	4.5 kg
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F) according to IEC60068-2 with 0.5 m/s AirFlow
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Storage Humidity	10% ~ 90%, non-condensing
Certification	CE, FCC Class A, according to EN 55032/55035 EN50155, UL, BSMI, PSE, other (by project)

Vibration

MIL-STD-810G, Method 514.7,
Category 4
MIL-STD-810G, Method 516.7,
Procedure I (Shock)

Dimension

Unit: mm / inch



Ordering Information

Packing List

- 1 x AI BOX
- 1 x Power Harness Cable
- 2 x SATA Cable
- 2 x Alarm I/O Cable
- 2 x Mounting Bracket
- 1 x Screw Kit (4 screws + 8 spacers for mounting bracket, 8 screws for SATA drive)

Part Number

2EAC-70X5-0603-02 (2 x RS-232)	eNVP-JAX-AI-V0008, AGX, 2 x SATA, 8 x PoE, 128 GB, 9 ~ 36 VDC
2EAC-70X5-0603-03 (2 x RS-232)	eNVP-JAX-AI-V0008, AGX, 2 x SATA, 8 x PoE, 128 GB, 9 ~ 36 VDC

Optional Accessories

Part Number/Item

3ENXD00DTH0002R	M.2 2230 BL-M2288CP1 2.4/5G Wi-Fi/BT Kit
3ENTR00DTH0002R	LE910C4-EU mPCIe CAT4 4G Kit
3ENTR00DTH0003R	LE910C4-EU M.2 B-KEY 3042 CAT4 4G Kit
4712OBSWIFAC01	Allxon swiftDR OOB Enabler
4125E000054	Power Adapter AC 100 ~ 240 24VDC/9.1A 218.4W