

eNVP-JNX-AI-UB000

Ultra Compact Rugged Embedded
Edge AI System with
NVIDIA® Jetson Xavier™ NX



Features

- Fanless AI edge embedded box PC
- 6-core NVIDIA Carmel Arm® v8.2 64-bit CPU
- 384-core NVIDIA Volta™ GPU with 48 Tensor Cores
- Onboard 8 GB 128-bit LPDDR4 memory (59.7 GB/s)
- Supports 2 x GbE
- Supports 1 x M.2 M-key 2280 (for NVMe SSD)
- Supports 1 x M.2 B-key 3052/3042 (for 5G/4G)
- Supports 1 x M.2 E-key 2030 (for Wi-Fi/BT module)
- Supports 1 x CAN bus
- Supports 3 x USB 3.0, 1 x USB 2.0
- Supports 1 x Micro USB (for Flash OS)
- Supports 1 x UART, 1 x RS-485, 2 x I2C, 2 x SPI, 6 x GPIO, 2 x +5V Output, 2 x +3.3 V Output
- 12 VDC input

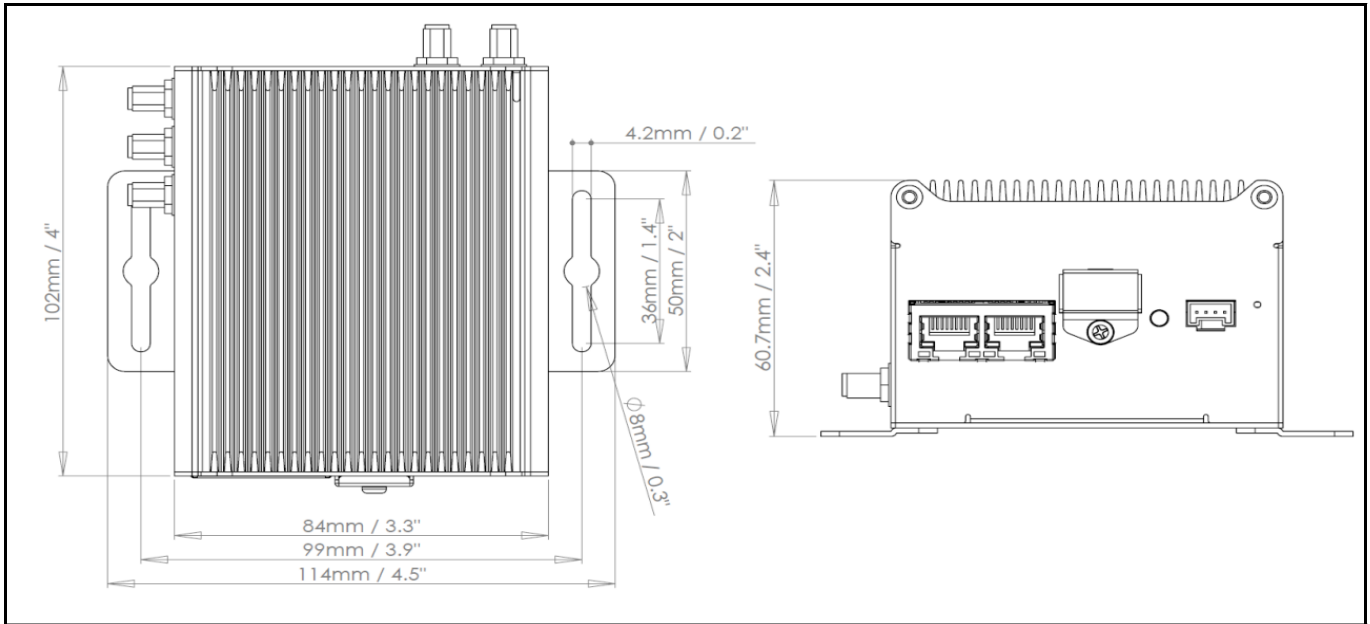
Specifications

System	
AI Accelerator	NVIDIA® Jetson Xavier™ NX
CPU	6-core NVIDIA Carmel Arm® v8.2 64-bit CPU
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
Memory	Onboard 8 GB 128-bit LPDDR4 (59.7 GB/s)
Storage	
Storage	16 GB eMMC 5.1
SATA	--
SD Card	1 x microSD
NVMe SSD	Supported (via Expansion)
Power	
Power Supply	12 VDC
Network	
Ethernet	2 x GbE
PoE	--
Antenna	5 x ANT.
Wi-Fi/BT	Supported (via Expansion)
4G/5G	Supported (via Expansion)
GPS	--
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	
CAN bus	1 x CAN bus
Indicator	1 x LED (PWR)
USB	3 x USB 3.0 1 x USB 2.0
OTG USB	1 x Micro USB (for Flash OS)
DIO	--
Display	1 x HDMI 1 x DisplayPort
Audio	1 x Audio In/Out
Button	1 x Recovery 1 x Reset
Power	1 x PWR Input (3-pin terminal block)
COM	--
Others	2 x UART, 1 x RS-485, 2 x I2C, 2 x SPI, 6 x GPIO, 2 x +5V Output, 2 x +3.3V Output
General	
Dimensions	114 x 102 x 60.7 mm (4.48" x 4.01" x 2.39") (with bracket)
Weight	0.65 kg
Operating Temperature	(Please refer to the table below)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Storage Humidity	10% ~ 90%, non-condensing
Vibration	MIL-STD-810G, Method 514.7, Category 4 MIL-STD-810G, Method 516.7, Procedure I (Shock)

Dimension

Unit: mm / inch



Operating Temperature

Power Mode	CPU Core	CPU Maximum Frequency	Operating Temperature
15 W	6 Core	1.4 GHz	-20 ~ 50°C (-4 ~ 122 °F) (With Fan)
	4 Core	1.4 GHz	-20 ~ 50°C (-4 ~ 122 °F) (With Fan)
	2 Core	1.9 GHz	-20 ~ 50°C (-4 ~ 122 °F) (With Fan)
10 W	4 Core	1.2 GHz	-20 ~ 50°C (-4 ~ 122 °F)
	2 Core	1.5 GHz	-20 ~ 50°C (-4 ~ 122 °F)

Ordering Information

Packing List

- 1 x AI BOX
- 1 x 3-pin terminal block

Part Number

2ENXR00DAB0002R

Optional Accessories

Part Number/Item	
3ENTR00DTH0001R	I/O Cable Kit
4B01XUD12060AS2	Adpater (In: 100 ~ 240 VDC/Out: 12 VDC 5A 60W)
3ENTR00DTH0004R	Fan Kit
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
3ENTR00DTH0003R	LE910C4-EU M.2 B-KEY 3042 CAT4 4G Kit
3ENXD00DTH0002R	M.2 2230 BL-M2288CP1 2.4/5G Wi-Fi/BT Kit