

eNVP-JOX-UB

Fanless Embedded Edge AI System with
NVIDIA® Jetson Orin™ NX



Features

- Powered by NVIDIA® Jetson Orin™ NX
- Onboard 16/8 GB 128-bit LPDDR5
- Multiple I/O interface connections for data collection GbE LAN, USB 3.1, Serial Port, CAN, Alarm I/O
- Wide operating temperature range -20 to 50°C

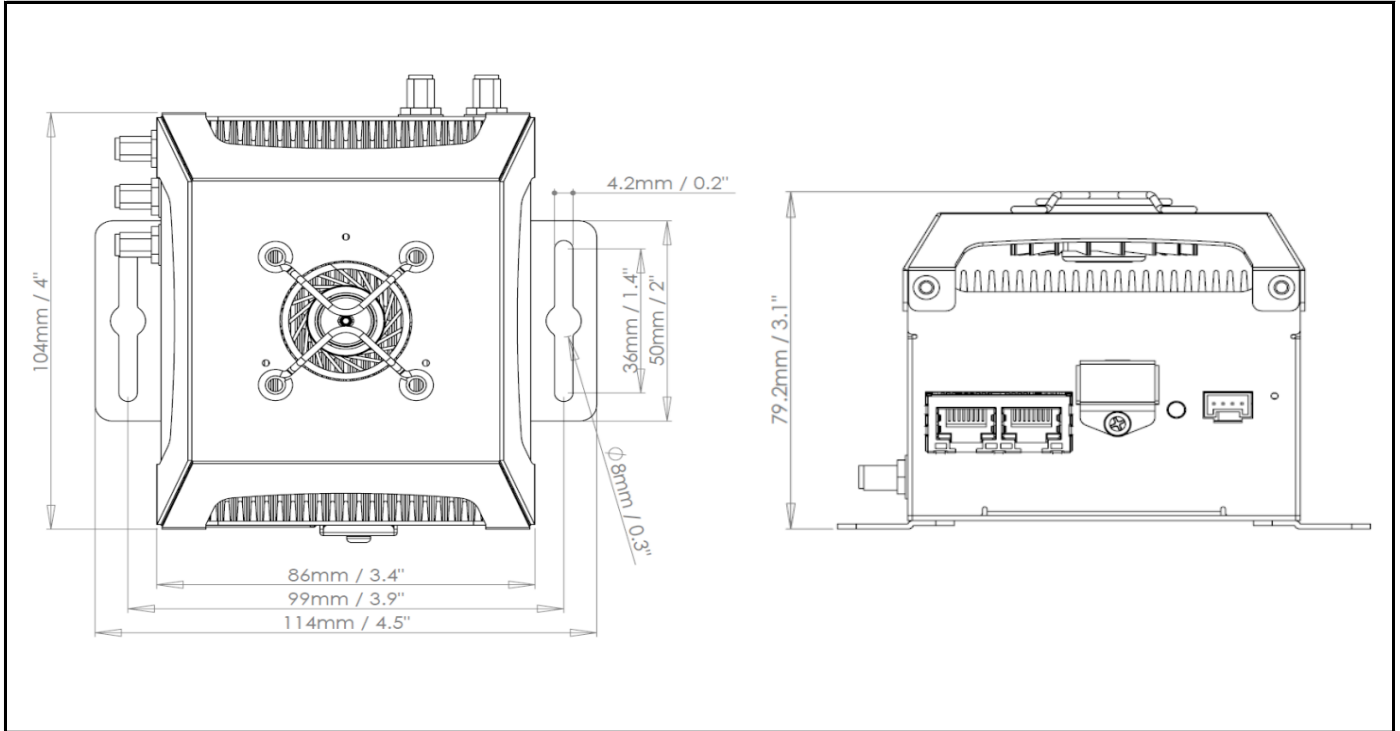
Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin™ NX 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
Memory	Onboard 16/8 GB 128-bit LPDDR5
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	3 x LED indicator (Power, SD Card, SSD)
Wireless	1 x M.2 E-Key 3042/3052
Operating System	Linux (NVIDIA Jetpack 5.1 and above)
Power Supply	
Power Requirement	12 VDC
Power Consumption	Max. 25 W (with Fan)
MTBF (Hours)	--
Environmental and Mechanical	
Dimension	114 x 104 x 79.2 mm (4.4" x 4.0" x 2.38")
Weight	0.65 kg
Mouting/Installation	Din Rail, Wall Mount
Operating Temperature	-20 ~ 50 °C (-4 ~ 122 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning

Interface	
Serial Port	2 x UART 1 x RS-485
CAN Bus	1 x CAN bus
Ethernet	1 x GbE LAN, RJ45
USB	3 x USB 3.1, Type-A 1 x USB 2.0, Type-A
DI/DO	6 x GPIO
AI/AO	--
Display	1 x HDMI 2.0-Out
Power Connector	Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x SIM card slot 1 x microSD slot
Other Interface	--

Dimension

Unit: mm / inch



Ordering Information

Packing List

- 1 x eNVP-JOX-UB BOX
- 1 x 3-pin Terminal Block Connector

Part Number

eNVP-JOX-UB-F3000	NVIDIA® Jetson Orin™ NX, 8 GB, 12 VDC
eNVP-JOX-UB-F4000	NVIDIA® Jetson Orin™ NX, 16 GB, 12 VDC
eNVP-JOX-UB-F3500	NVIDIA® Jetson Orin™ NX, 8 GB, 128 GB eMMC, 12 VDC
eNVP-JOX-UB-F4500	NVIDIA® Jetson Orin™ NX, 16 GB, 128 GB eMMC, 12 VDC

Optional Accessories

Part Number / Item

3ENTR00DTH0001R	I/O Cable Kit
4B01XUD12060AS2	Adapter (In: 100-240V/Out: 12 VDC 5A 60W)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
4170A000015	Antenna RFA-27-C2M2-U-M70 ARISTOTLE
4170A000016	CABLE BTC013-MHF4-70B-150 ARISTOTLE
4FP-MD00000	Wi-Fi MODULE ENL-R8852BE M.2 2230 ENLI
47ZZTS128GSAD01	128 GB, 2.5" SSD, SATA III, 3D TLC BiCS5, DRAM-less, PE: 3K, wide temperature
47ZZTS256GMAD02	256 GB, M.2 2280, 4 x PCIe Gen4, M-Key, 3D TLC BiCS5, PE: 3K, extended temperature
47ZZTS512GMAD01	PCIe 2280 M.2 512 GB SSD TS512GMTE710T
47ZZTS1TMTEAD01	1 TB, M.2 2280, 4 x PCIe Gen4, M-Key, 3D TLC BiCS5, PE: 3K, extended temperature