



Features

- Powered by NVIDIA® Jetson Orin™ NX
- Onboard 16GB / 8GB 128-bit LPDDR5
- Multiple I/O interface connections for data collection
Gigabit LAN with PD/PSE, USB 3.1, Serial Port, CAN-FD
- Wide operating temperature range -20°C to 60°C

Specifications

System		Interface	
CPU/GPU	NVIDIA® Jetson Orin™ NX 8/6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	Serial Port	2 x RS-485, DB-9
Memory	Onboard 16GB / 8GB 128-bit LPDDR5	CAN Bus	2 x CAN bus, Terminal Block
Storage	1 x M.2 M-Key 2280, support NVMe	Ethernet	1 x GbE LAN support PD 60W, RJ45 1 x GbE LAN support PSE 15W, RJ45 DC Mode: 4 x GbE LAN support PSE Max 60W, RJ45
Real time clock	Yes	USB	4 x USB 3.1, Type-A
Indicators	LED indicator x 4 (Power)	DI/DO	8x Alarm I/O
Wireless	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	AI/AO	--
Operating System	Linux (NVIDIA Jetpack 5.1 and above)	Display	1 x HDMI 2.0-Out
Power Supply		Power Connector	Terminal Block
Power Requirement	9 to 48 VDC	Debug Port	1 x Micro USB for console
Ignition Power Management	12/24/48V Mode	Expansion Slot	1 x SIM card slot 1 x Micro SD slot
Power Consumption	Max. 45W (with Fan, without 4x PoE)	Other Interface	--
MTBF (Hours)	--		
Environmental and Mechanical			
Dimension	192 x 154.8 x 70.4mm		
Weight	TBD		
Mouting/Installation	Din Rail, Wall Mount, VESA Mount		
Operating Temperature	-20 °C ~ 60 °C)		
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 85 °C)		
Operating Humidity	10% ~ 95% relative humidity, non-condensing		
Certification			
Regulations	CE, FCC		
Safety	NEMA TS2 (by optional)		

Radio Frequency		
LTE 4G (CAT 1) (Optional)	3GPP Rel.9 compliant protocol Frequency bands: FDD LTE: B1 /B2 /B3 /B4 /B5 /B7 /B8 /B12 /B13 /B18 /B19 /B20 /B25 /B26 /B28 TDD LTE: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8	SIM card size: Micro-SIM slot Antenna type: External type Antenna connector: SMA-Male
GPS (Optional)	GPS/GLONASS/BeiDou (Compass)/Galileo	

Dimension

Unit: mm / inch



Ordering Information

Part Number	Packing List
eNVP-JOX-IV-F3000 NVIDIA® Jetson Orin™ NX, 8GB, 9 to 48VDC	eNVP-JOX-IV BOX x1
eNVP-JOX-IV-F4000 NVIDIA® Jetson Orin™ NX, 16GB, 9 to 48VDC	
eNVP-JOX-IV-F3004 NVIDIA® Jetson Orin™ NX, 8GB, 4 x GbE PoE, 9 to 48VDC	
eNVP-JOX-IV-F4004 NVIDIA® Jetson Orin™ NX, 16GB, 4 x GbE PoE, 9 to 48VDC	

Optional Accessories

Part Number / Item	
4170A000012	Cable,DC Jack to 2P,L=50
4B01XUD12060AS3	Adapter (In:100-240V / Out: DC12V 5A 60W)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US