

Industrial Edge Computer



The **XetaEdge** is an extremely capable and flexible industrial Edge Computing application device. The **XetaEdge** is Class 1 Div 2 certified and 100% open source allowing quick and simple hosting of many existing or new applications.

The **XetaEdge** can be used with XetaWave products or any other serial or Ethernet wired or wireless product. The Two Ethernet and two serial ports allow simple inline connection or the ability to translate from Ethernet to Serial or Serial to Ethernet.

The **XetaEdge** offers optional programmable analog and digital input and output signals for monitoring and/or controlling external sensors and devices.

The **XetaEdge** has successfully hosted both the **AUTOSOL eACM** and the **Inductive Automation Ignition Edge** to offer multiple protocols to interact with exiting devices like flow meters, ROCs, and PLCs while reducing bandwidth needs with the use of the **MQTT** protocol.

Key Features

Industrial Safe C1D2 certified and operational from -40°C to $+85^{\circ}\text{C}$ for hazardous industrial applications.

Memory capacity Host and run applications with 1 GB RAM and 4 GB Flash plus a micro SD slot.

Apps AUTOSOL eACM and Ignition Automation Ignition Edge installations available.

Interface rich Supporting 2 Ethernet ports, 2 serial ports, and 2 USB 2.0 ports.

I/O Interface Optional 8 programmable multi-functional inputs and outputs configurable as 8 digital or analog inputs or 4 digital and 4 analog outputs.

Open Source Utilize existing Linux applications or host new ones developed in Java, Python, Ruby, Perl, and many more.

Processing

CPU	1 GHz ARM Cortex-A8
OS	Linux Debian, Ubuntu Server, Open Embedded
RAM	1 GB
Flash	4 GB
Expansion Storage	1 micro SD slot
Software	Ignition Edge, eACM, Node-RED, Java, Python, many more

Power

Operating Voltage	+5 Vdc to +30 Vdc
Current	3 A @ +12 Vdc (max with I/O) 0.12 A @ +12 Vdc running eACM (without I/O)

Interfaces

Data Connectors	2 Ethernet RJ45 2 Serial RJ45 2 Micro USB 2.0 On-the-Go
Data Interface Rates	10/100 Mbps Ethernet Up to 3 Mbps Serial
Serial Protocol	RS232/485
Power Connector	2-pin Phoenix

Environmental / Physical

Op Temperature	-40°C to +85°C
Humidity	95% @ +40°C non-condensing
Safety	UL Class 1 Div 2
Dimensions	5.5" x 3.5" x 1.5" (L x W x H)
Weight	182 grams

Optional 8 Multi-Functional I/O

Programmable Input	8 Digital Voltage Inputs (0 to Operating Voltage) 8 Analog Voltage Inputs (4 @ 0-6 Vdc, 4 @ 0-7.5 Vdc) 4 Analog Current Inputs (0-25 mA)
Programmable Output	4 Digital Outputs (sink current of 2 A) 4 Analog Outputs (1-24 mA)

Ordering

XETAEC-22NPDNA	Plastic Enclosed, 2 Ethernet, 2 Serial, Debian OS
XETAEC-22NPDNA-IO	Plastic Enclosed, 2 Ethernet, 2 Serial, 8 I/O, Debian OS