XetaEdge
Debian 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. 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.

Users have successfully hosted both the **AUTOSOL eACM** and the **Inductive Automation Ignition Edge** on the XetaEdge 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 −40⁰C to +85⁰C for hazardous industrial applications.

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

Memory Capacity Host and run applications with 1 GB RAM and 4 GB Flash with an option for 8GB or 16GB plus a micro SD slot.

I/O Interface Optional 8 programmable multi-functional inputs and outputs .

Apps AUTOSOL eACM, Node-RED, Inductive Automation Ignition Edge, AVEVA IoT View, and more supported.

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

XetaEdge Specifications

Processing

CPU	1 GHz ARM Cortex-A8
OS	Debian
RAM / Flash	1 GB / 4 GB
	8 GB & 16 GB Flash Options

Interfaces

Power Connector	2-pin Phoenix / +5 to +30 Vdc
Ethernet	2 x RJ45 / 10/100 Mbps Base-T
Serial	2 x RJ45 / up to 1Mbps / RS232/422/485
Micro USB	On-the-Go; +5 Vdc @ 500 mA

Power

Idle	120 mA @ +12 Vdc
Running eACM	140 mA @ +12 Vdc
Optional I/O	3 A @ +12 Vdc

Environmental/Physical

Op. Temperature	-40°C to +85°C
Humidity	95% @ +40°C non-condensing
Safety	UL Class 1 Div 2
Dimensions (LxWxH)	5.3" x 3.1" x 0.66" (board)
	5.5" x 3.5" x 1.5" (plastic)
Weight	1xx/182 grams (board/plastic)

Functionality

Networking	Static IP Routing, Net Filtering, Port Forwarding, Network Address Translation, Modbus Bridging
Protocols	IEEE 802.3, TCP, UDP, ARP, DHCP, NTP, FTP, ICMP, HTTP, HTTPS, SSH, Telnet, Multicast SNMP
Management	Web GUI, SNMP v1, v2, & v3
VLANs	802.1q VLANs and Trunks,
Serial Services	TCP/UDP Terminal Server, TCP Terminal Client, Modbus RTU Server
Diagnostics	IP Ping, Traceroute, IPERF, TCP Dump, DNS Lookup, Serial Statistics, Modbus Bridging Statistics
Programmable I/O	Option for 8 programmable input/output signals (4 independently programmed analog inputs, analog outputs, or digital inputs and 4 independently programed digital inputs or digital outputs)

Ordering

XETAEC-22NNDNA	Board Level, 2 Ethernet & 2 Serial
XETAEC-22NNDNA-IO	Board Level, 2 Ethernet & 2 Serial , 8 I/O
XETAEC-22NPDNA	Plastic Enclosed, 2 Ethernet & 2 Serial
XETAEC-22NPDNA-IO	Plastic Enclosed, 2 Ethernet & 2 Serial , 8 I/O
XETAEC-22NNDNA-8G	Board Level, 2 Ethernet & Serial, with 8GB FLASH
XETAEC-22NNDNA-16G	Board Level, 2 Ethernet & Serial, with 16GB FLASH
XETAEC-22NPDNA-8G	Plastic Enclosed, 2 Ethernet & Serial, with 8GB FLASH
XETAEC-22NPDNA-16G	Plastic Enclosed, 2 Ethernet & Serial, with 16GB FLASH

XETAWAVE
CUSTOM RF SOLUTIONS