

## *Debian / Edge Computer Industrial Cell Modem*

The **XetaCell Debian cell modem** is a flexible and extremely capable industrial Class 1 Div 2 LTE cell modem certified for operation in the US and Canada. The XetaCell is offered in two versions – as a standalone product or integrated within the XetaEdge edge computer platform. Both versions are based on the open Debian operating system and are available with an optional 8 programmable I/O.



The XetaEdge is a powerful, low cost platform that supports hosting of applications such as **AUTOSOL eACM, Inductive Automation Ignition Edge, Node-RED, Reverity PLC Shift, and AVEVA Edge IoT View**, and supports multiple protocols for interacting with existing devices like flow meters, ROCs, and PLCs, while reducing bandwidth needs using the MQTT protocol.

The web user interface of the **XetaCell** is consistent with the XetaWave Debian and XetaEdge platforms which simplifies configuration and use.

The robust XetaCell product offering enables companies to select the version that best meets their needs from simple to more advanced

## Key Features

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

**Optional Edge Computing** Host apps such as AUTOSOL eACM, Node-RED, Inductive Automation Ignition Edge, AVEVA Edge IoT View, Reverity PLC Shift, and more.

**Optional Programmable I/O** Independently configure 4 I/O as analog inputs, analog outputs, or digital inputs and 4 I/O as digital inputs or outputs.

**Analog Input** Multiple 4-20 mA and 1-5 Vdc analog inputs for connecting sensors measuring temperature, humidity, flow, level, or pressure.

**Digital Output** Multiple digital outputs for controlling solenoids, latches, valves, pumps, lamps, or relays.

**Digital Input** Multiple digital inputs for monitoring relays, switches, closure sensors, and alarms.

# XetaCell Specifications

## Processing

CPU	ARM Cortex-A8
OS	Debian
RAM / Flash	256 MB / 4 GB (standard) 1 GB / 4GB (edge computer) with options for 8 GB & 16 GB

## Environmental/Physical

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

## Power

Transmit	x mA @ +12 Vdc (LTE M1 / NB1)
	x mA @ +12 Vdc (LTE 4)
Receive	x mA @ +12 Vdc
Idle	x mA @ +12 Vdc

## Interfaces

Power Connector	2-pin Phoenix / +10 to +32 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
SMA	2 x LTE / 1 x GPS
IO (optional)	12-pin Phoenix 4 Analog In, Analog Out, or Digital In 4 Digital In or Digital Out

## Functionality

LTE M1 / NMB1	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28 Transfer rate (max) : M1– 300 kbps down, 375 kbps up; NB1—21 kbps down, 62.5 kbps up
LTE 4	B2, B4, B5, B12, B13, B14, B66, B71 Transfer rate (max) : 150 Mbps down, 50 Mbps up
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, QoS
Serial Services	TCP/UDP Terminal Server, TCP Terminal Client
Diagnostics	IP Ping, Traceroute, IPERF, TCP Dump, DNS Lookup, Network Statistics, 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 programmed digital inputs or digital outputs)

# XetaCell Specifications

## Ordering

XETACM-22NPDA	Plastic Enclosed, CAT M1, 2 Ethernet & 2 Serial
XETACM-22NPDA-IO	Plastic Enclosed, CAT M1, 2 Ethernet & 2 Serial with 8 Programmable I/O
XETAECM-22NPDA	Plastic Enclosed Edge Computer, CAT M1, 2 Ethernet & 2 Serial
XETAECM-22NPDA-IO	Plastic Enclosed Edge Computer, CAT M1, 2 Ethernet & 2 Serial with 8 Programmable I/O
XETAC4-22NPDA	Plastic Enclosed, CAT 4, 2 Ethernet & 2 Serial
XETAC4-22NPDA-IO	Plastic Enclosed, CAT 4, 2 Ethernet & 2 Serial with 8 Programmable I/O
XETAEC4-22NPDA	Plastic Enclosed Edge Computer, CAT 4, 2 Ethernet & 2 Serial
XETAEC4-22NPDA-IO	Plastic Enclosed Edge Computer, CAT 4, 2 Ethernet & 2 Serial with 8 Programmable I/O