

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



The **XetaCell 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 versatility of the **XetaCell** product offering enables companies to select whatever version best meets their needs from simple to more advanced communication and automation.

Key Features

Industrial Safe C1D2 certified and operational from -40°C to +85°C for hazardous industrial applications.

Optional Edge Computing Host apps like the 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 @ 300 MHz (Debian) ARM Cortex-A8 @ 1GHz (XetaEdge)
OS	Debian
RAM Flash	256 MB 4 GB (Debian) 1 GB 4GB (XetaEdge) 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	5.5" x 3.5" x 1.5"
Weight	182 grams

Functionality

Carriers	Verizon AT&T Rogers Telus
LTE M1 / NMB1	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28 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 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, Up to 6 Simultaneous Connections
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)

Power

Cell Linked	<190 mA@ +12 Vdc
Cell Off	< 140 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
I/O (optional)	12-pin Phoenix 4 Analog In/Out or Digital In 4 Digital In or Digital Out

XetaCell Specifications

Ordering

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