XETAWAVE
CUSTOM RF SOLUTIONS

XETACELL

Industrial Cell Modem

Class 1 Div 2 LTE cell modem · standard Debian or XetaEdge edge computer



150Mbps
LTE CAT 4 download

8I/O
Optional programmable

+75°C
Max operating temp.

Radio
Optional ISM radio

The **XetaCell** 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 standard 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 **XetaCell XetaEdge** is a powerful, low-cost platform that supports hosting of applications such as the AUTOSOL eACM, Inductive Automation Ignition Edge, Node-RED, Reverity PLC Shift, and others. The **XetaCell** supports multiple protocols for interacting with existing devices like flow meters, ROCs, and PLCs.

The web user interface of the **XetaCell** is consistent with the Debian and the XetaEdge products simplifying configuration and use.

KEY FEATURES

Variants
Offering standard Debian or Edge Computer variants with CAT M1 or CAT 4 cellular capability.

Carriers
Supports Verizon, AT&T, T-Mobile, FirstNet, Rogers, and Telus cellular networks.

Industrial Safe
C1D2 certified for operation from –40 °C to +75 °C for hazardous industrial applications.

Edge Computer
Models with edge computing capability are available for hosting custom or third-party applications.

Software Defined Radio
Integrated unlicensed 900 MHz or 2.4 GHz ISM wireless communications capability is available.

Programmable I/O
I/O consisting of 4 analog inputs, outputs, or digital inputs and 4 digital inputs or outputs is available.

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

Analog Output
Multiple 4–20 mA and 1–5 Vdc analog outputs for controlling valves, actuators, and positioners.

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

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

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Specifications

PROCESSING

CPU	ARM Cortex-A8 @ 300 MHz (Debian) ARM Cortex-A8 @ 1 GHz (XetaEdge)
OS	Debian
RAM / Flash	256 MB / 4 GB (Debian) 1 GB / 16 GB (XetaEdge)

INTERFACES

Power	2-pin Phoenix · +10 to +32 Vdc
Ethernet	2× RJ45 · 10/100 Mbps Base-T
Serial	2× RJ45 · up to 1 Mbps · RS-232/422/485
Micro-USB	On-the-Go · +5 Vdc @ 500 mA
LTE / GPS	2× SMA / 1× SMA · 50 Ω
Standard I/O	2× DI
SIM	Micro SIM (3FF)

POWER @ +12 VDC

Cell Linked	190 mA
Cell Off	140 mA

ENVIRONMENTAL & MECHANICAL

Op. Temp.	-40 °C to +75 °C
Humidity	95% @ +40 °C, non-condensing
Dimensions	5.5 × 3.5 × 1.5 in
Weight	182 grams
Safety	UL Class I, Div 2

CELLULAR

Carriers	Verizon · AT&T · T-Mobile · FirstNet · Rogers · Telus
LTE M1 / NB2	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B71, B85 M1: 588 kbps down, 1 Mbps up · NB2: 120 kbps down, 160 kbps up
LTE 4	B2, B4, B5, B12, B13, B14, B66, B71 150 Mbps down, 50 Mbps up

Functionality & Ordering

FUNCTIONALITY

Carrier Selection	Manual carrier selection or automatic selection with automatic switching if a carrier is unavailable
Networking	Static IP Routing, Net Filtering, Port Forwarding, Masquerading, Network Address Translation, Modbus Bridging
Protocols	IEEE 802.3, TCP, UDP, ARP, DHCP, NTP, STP, FTP, ICMP, HTTP, HTTPS, SSH, Telnet, Multicast, SNMP
Management	Web GUI, SNMP v1, v2a, v3
VLANs	802.1Q VLANs and Trunks, QoS
Quality of Service	Four levels of VLAN QoS
Serial Services	TCP/UDP Terminal Server, TCP Terminal Client, up to 5 simultaneous connections
Diagnostics	IP Ping, Traceroute, IPERF, TCP Dump, DNS Lookup, Network Statistics, VPN Statistics, Serial Statistics, Modbus Bridging Statistics, statistics graphing and CSV downloading
Programmable I/O	Optional 8 programmable input/output signals (4 independently programmed analog inputs/outputs, or digital inputs and 4 independently programmed digital inputs/outputs)

ORDERING INFORMATION

Part Number	Type	LTE	Enclosure	Eth / Serial	I/O
LTE Cat M1/NB2					
XETAC1-22IPDFA	Standard	CAT M1	Plastic	2 / 2	2 DI
XETAC1-22IPDFA-IO	Standard	CAT M1	Plastic	2 / 2	8 I/O
XETAECC1-22IPDFA	Edge Computer	CAT M1	Plastic	2 / 2	2 DI
XETAECC1-22IPDFA-IO	Edge Computer	CAT M1	Plastic	2 / 2	8 I/O
LTE Cat 4					
XETAC4-22IPDFB	Standard	CAT 4	Plastic	2 / 2	2 DI
XETAC4-22IPDFB-IO	Standard	CAT 4	Plastic	2 / 2	8 I/O
XETAECC4-22IPDFB	Edge Computer	CAT 4	Plastic	2 / 2	2 DI
XETAECC4-22IPDFB-IO	Edge Computer	CAT 4	Plastic	2 / 2	8 I/O

Specifications subject to change without notice. **Rev. 10.2026**