



Cellular Router Capabilities

LynxSpring's new Onyx 4G LTE Cellular Router is designed to support secure, remote access and the exchange of data among today's intelligent buildings, energy management systems, machine-to-machine applications, edge devices and cloud services.

LynxSpring has conveniently packaged our new easy-to-configure Cellular Router with our E2E Private Wireless Network and the E2E Easy Data Service Plan.

With the reliability, coverage, security and simplicity of our wireless data plan, the Onyx Cellular Router has been designed for simple set-up, installation, commissioning and includes a wireless modem interface allowing instant communication upon startup. Developed to be a drop-in or an OEM equipment deliverable product, the new Cellular Router provides remote access and data acquisition through enabling you to:

- ✓ Remotely monitor and control infrastructure and equipment, meters, pumps and valves in any energy, utility, commercial or industrial application.
- ✓ Instantly connect equipment at remote point-of-sale locations, temporary installations, or retail operations.
- ✓ Access to building and energy assets via a secure VPN.

Onyx 4G LTE Cellular Router Features

4G CAT1 MODEL

- ✓ LTE Bands B4 (1700), B13 (750)
- ✓ Download: up to 10 Mbps
- ✓ Upload: up to 5 Mbps
- ✓ Ethernet is standard

Carrier Approvals

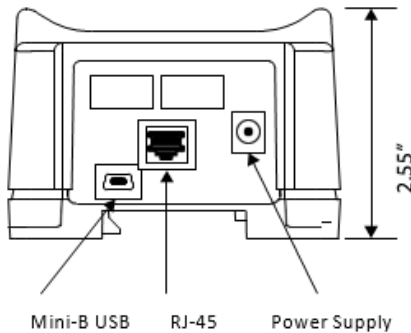
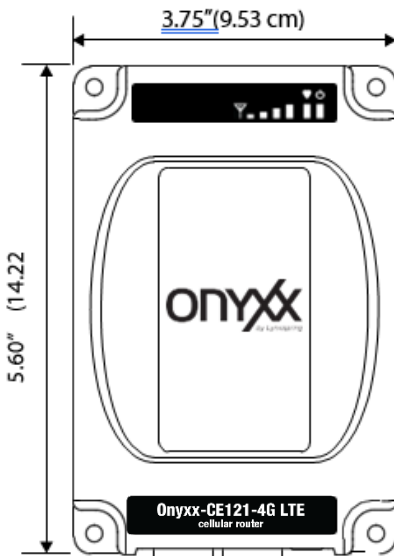
The Onyx 4G LTE Cellular Router is tested and approved for deployment by Verizon.

Onyx[®] 4G LTE[™] Cellular Router

PRODUCT DATA SHEET

Made in USA

Dimensions



Specifications

PLATFORM

Operating System	Helix [®] Framework by Lynxspring [®]
Processor	1 GHz AM335x ARM Cortex A-8
Memory	512 MB DDR3L 800 MHz, 4 GB 8-bit Embedded MMC on-board Flash

COMMUNICATION PORTS

Ethernet Port	10/100 Mbps (<i>RJ-45 Connector</i>)
Mini-B USB	USB Client Connector utilizes 5-pin mini-B USB cable
Antenna	1 SMA antenna connectors (<i>Primary</i>), active antenna support

PROTOCOLS

Network	TCP/IP, UDP/IP, DNS (<i>pass-through</i>)
Routing	NAT, Host Port Routing, Reliable Static Route
Application	Telnet/SSH, SMTP, SNMP, SNTIP

CONNECTION

Remote VPN Network	Port Forwarding
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POWER

Power Input	External 9 to 15 VDC 1A power supply
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ENVIRONMENT

Operating Temperature Range	0 – 60 °C (32 –140 °F)
Storage Temperature Range	0 – 70 °C (32 –158 °F)
Relative Humidity Range	5 – 95% RH, non-condensing

CERTIFICATIONS

Compliance	FCC 47 Part 22 & 24, Complies with FCC47 Part 15 Class B. Industry Canada, CE, RoHS Compliant, Class 1 Div. 2.
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RF Exposure/Specific Absorption Rate (SAR)	This product has been evaluated for SAR and meets the FCC Guidelines for exposure to radio waves
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FCC Equipment Authorization ID: QIPELS31-V

Ordering Information

PART NUMBER(S)

PART NUMBER(S)	DESCRIPTION
Onyx-CE121-4G LTE	Packaging will include: one (1) Onyx 4G LTE Cellular Router, one (1) 9 to 15 Vdc 1A external power supply, and one (1) 7 ft. Ethernet cable and one (1) direct-connect antenna.

OPTIONAL

OX-CMA-3WR-12	Remote antenna with an ultra-wide band, cellular magnetic mount including a 3-foot cable
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