



CX111 CELLULAR BROADBAND DATA BRIDGE

Product Overview

Juniper Networks delivers the industry's most flexible and reliable 3G/4G LTE termination for enterprise branch locations with the CX111 Cellular Broadband Data Bridge. With wireless WAN technologies becoming faster, more reliable, and available everywhere, 3G /4G LTE is a viable option for branch office, instant-day one connectivity. 3G/4G LTE is also an outstanding backup option since it provides, rapid deployment, and relatively high performance at a low cost.

Juniper blends multiple 3G/4G LTE connectivity options with its awarding winning Juniper Networks SRX Series Services Gateways for the branch to provide the industry's most reliable, simple, and flexible choice for high performance remote networks.

Product Description

Juniper Networks® CX111 Cellular Broadband Data Bridge delivers simple and flexible 3G/4G Long Term Evolution (LTE) cellular data connectivity for small and large branch offices. An Ethernet cable plant supporting 802.3af Power over Ethernet (PoE), the CX111 also provides the following:

- More modem options and deployment choices than any other vendor provides. It supports 50+ USB modems purchased from leading global carriers for worldwide 3G/4G coverage, flexibility, and choice. Customers can upgrade their wireless technology or change carriers without system downtime.
- The only 3G/4G LTE solution with a built-in 3G/4G LTE LED signal indicator that can be installed anywhere for optimal performance. It acts as a transparent Layer 2 bridge to provide quick and simple 3G/4G LTE access.
- Simple and flexible global cellular data connectivity for small and large remote sites. It is the industry's first all-Ethernet solution and doesn't require coaxial cable or antenna for installation.
- Support for 802.3af PoE for ease of installation.

Delivers 4G LTE

Almost all Global System Mobile (GSM), Wideband Code Division Multiple Access (W-CDMA), Time Division Synchronous Code Division Multiple Access (TD-SCDMA), and Code Division Multiple Access (CDMA) operators are embracing LTE as their preferred next-generation mobile network technology. The CX111 is 3G and 4G LTE ready, making the transition from your reliable 3G networks to LTE easy while protecting your current investments with solutions that maximize spectrum utilization, reduce costs, and enable you to continue to deliver services throughout the migration process. 4G LTE provides an effortless, more consistent overall mobile broadband experience that includes the following:

- Unmatched performance for critical applications at 4G LTE speeds
- Maximum flexibility in site layout
- Industry-leading network security to meet stringent compliance requirements
- Supports VZW, ATT and LTE modems.

- Reduced network operating costs:
 - Our multi-standard base CX111 facilitates efficient mobile evolution and reduces operational, maintenance, and service costs.
 - A flat all-IP network reduces operating expenses across the entire network.
- Rapid launch with minimized risk:
 - Network agility and an open LTE ecosystem accelerate service deployment.
 - Smooth introduction of LTE and IP technologies enables service continuity.
- Unprecedented quality of experience (QoE):
 - Unmatched policy management, service routing, and rich IP communications enable end-to-end QoE.

Delivering an End-to-End Solution

The CX111 Cellular Broadband Data Bridge integrates seamlessly with the Juniper Networks Branch SRX Series Services Gateways. Branch SRX Series products are high-performance, carrier grade secure routers for enterprises and service providers that consolidate security, routing, and switching services into a single platform, helping to reduce cost, complexity, and risk.

Features and Benefits

- All Ethernet plant—quick and low cost installation since neither coaxial cable nor antenna is required
- Install anywhere
 - LED signal strength meter
 - 802.3af PoE
 - Trouble free 3G/4G LTE installation with optimal performance
- Freedom of choice
 - Connect to your carrier of choice for 3G/4G LTE
 - 50+ USB and ExpressCard modems supported
- Future ready
 - Clearwire and Sprint WiMAX supported
 - 4G LTE supported
- Platform flexibility
 - Works with all Juniper branch devices—SRX Series, J Series, and SSG Series
 - Tight wired/wireless WAN integration for primary or backup connectivity

Specifications

Ethernet

- 1 x 10/100 Auto MDIX

PoE

- 802.3af (<5 W typical with one modem connected)

USB ports

- 3 x USB 2.0

ExpressCard ports

- ExpressCard/34

Modem types supported*

- EV-DO, High Speed Packet Access (HSPA), WiMAX and LTE



CX111 Cellular Broadband Data Bridge

Modem usage

- Up to 4 can be connected with one modem used at a time (Default dial order: EXPCD, USB1, USB2, USB3)

Modem cap

- Can be used to conceal modems

Buttons

- Signal strength button
- Activation button
- Reset button (recessed)

Switches

- Mode selector (pass-through (default) or local management)
- Power on/off

Power plug

- 12 V DC input (used if PoE not available). Automatic failover between PoE and DC input.

Power supply

- 30 W (included)

LEDs

- Power
- USB modem status (x3)
- ExpressCard modem status (x1)
- Modem signal strength (x4)
- LAN activity
- Data
- Info LEDs
- Failover
- Low-speed
- PoE power
- Config mode
- Attention
- Activation

Dimensions Without Modem Cap

- Width: 130 mm
- Depth: 230 mm
- Height: 40 mm
- Weight: 450 gms

* Please visit www.juniper.net/us/en/products-services/wireless/cx-series/cx111/#literature for a complete list of supported modems

Safety and Emissions, Certifications

USA

- EMC: FCC Class B, UL 60950-1

Canada

- EMC: ICES Class B, CAN/CSA-C22.2 No. 60950-1

EU

- Safety: EN 60950-1
- EMC: EN 55022 Class B

Australia

- Safety: CB Scheme
- EMC: AS/NZS CISPR22 Class B

NZ

- Safety: CB Scheme
- EMC: AS/NZS CISPR22 Class B

Japan

- Safety: CB Scheme
- EMC: VCCI Class B

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services that are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to maximize operational efficiency while reducing costs and minimizing risk, achieving a faster time to value for your network. Juniper Networks ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit juniper.net/us/en/products-services/.

Ordering Information

Part Number	Description
CX111 3G Bridge	
CX111-3G-BRIDGE	Ethernet (PoE powered) Wireless WAN bridge supports 3G/HSPA/EVDO/WiMAX/LTE USB or ExpressCard Modems. Connects to SRX, J-Series and SSG platforms. Power supply and modem cover included. 3G/4G LTE modem NOT included.

About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at juniper.net.

Corporate and Sales Headquarters

Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or 408.745.2000
Fax: 408.745.2100

juniper.net

APAC Headquarters

Juniper Networks (Hong Kong)
26/F, Cityplaza One
1111 King's Road
Taikoo Shing, Hong Kong
Phone: 852.2332.3636
Fax: 852.2574.7803

EMEA Headquarters

Juniper Networks Ireland
Airsides Business Park
Swords, County Dublin, Ireland
Phone: 35.31.8903.600
EMEA Sales: 00800.4586.4737
Fax: 35.31.8903.601

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