OnCell G4302-LTE4 Series

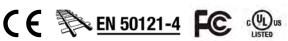
2-port industrial LTE Cat. 4 secure cellular routers



Features and Benefits

- Integrated LTE Cat. 4 module with US/EU/APAC band support
- · Power management support for wake-up time scheduling
- · Cellular link redundancy with dual-SIM GuaranLink support
- · Supports WAN redundancy between cellular and Ethernet
- · Precise GNSS for location-based applications
- · Rugged and compact design for harsh environments
- Compact size and smart LED design for easier installation and troubleshooting
- · Developed according to IEC 62443-4-2 with Secure Boot
- · Visualize OT security with the MXsecurity management software

Certifications



Introduction

The OnCell G4302-LTE4 Series is a reliable and powerful secure cellular router with global LTE coverage. This router provides reliable data transfers from serial and Ethernet to a cellular interface that can be easily integrated into legacy and modern applications. WAN redundancy between the cellular and Ethernet interfaces guarantees minimal downtime, while also providing extra flexibility. To enhance cellular connection reliability and availability, the OnCell G4302-LTE4 Series features GuaranLink with dual SIM cards. Moreover, the OnCell G4302-LTE4 Series features dual power inputs, high-level EMS, and a wide operating temperature for deployment in demanding environments. Through the power management function, administrators can set up schedules to fully control the OnCell G4302-LTE4 Series' power usage and minimize power consumption when idle to save cost.

Designed for robust security, the OnCell G4302-LTE4 Series supports Secure Boot to ensure system integrity, multi-layer firewall policies for managing network access and traffic filtering, and VPN for secure remote communications. The OnCell G4302-LTE4 Series complies with the internationally recognized IEC 62443-4-2 standard, making it easy to integrate these secure cellular routers into OT network security systems.

Highly Integrated Industrial Cellular Routers

- Support for global cellular bands including America, Australia, Europe, Asia, and Japan
- 2 Gigabit ports with managed Layer 2 switch functions
- Supports serial devices with the 3-in-1 RS232/422/485 port
- Supports MXsecurity and MXview One for distributed system and local site management

Defend Against Malicious Threats With Advanced Cybersecurity Features

- Secure boot for system integrity and to protect against tampering attacks
- VPN functionality for secure and encrypted data communication
- · Firewall policies to protect the internal network from unauthorized access and DoS attacks
- Network Address Translation (NAT) provides IP privacy between trusted and untrusted networks
- Cybersecurity features based on IEC 62443-4-2

Industrial-grade Reliability

- Dual power inputs for power redundancy
- · GuaranLink and dual SIM card support for reliable cellular connectivity
- -30 to 70°C wide operating temperature
- Rugged hardware design suitable for hazardous locations and various industrial applications

MX-ROS Addresses Growing Cybersecurity Threats

Moxa's MX-ROS (https://www.moxa.com/en/spotlight/portfolio/mx-ros/index) is a software platform for industrial security routers and firewalls. The platform supports the robust security and user-friendly operation of secure routers through simplified web and CLI interfaces. In addition to adhering to IEC 62443-4-2, MX-ROS devices offer a wealth of the latest cross-industry Operational Technology (OT) network management features with each release to safeguard hardware and software.



Specifications

Cellular Standards LTE CAT 4, HSPA, UMTS, EDGE, GPRS, GSM LTE Data Rate 20 MHz bandwidth: 150 Mbps DL, 50 Mbps UL Band Options (EU) -EU(-T) models: LTE B1 (2100 MHz) / B3 (1800 MHz) / B7 (2600 MHz) / B8 (900 MHz) / B20 (800 MHz) B28 (700 MHz) UMTS/HSPA B1 (2100 MHz) / B3 (900 MHz) / B3 (900 MHz) / B20 (800 MHz) / B20 (800 MHz) CGSM/GPRS/EDGE 900 MHz / 1800 MHz) / B5 (850 MHz) / B7 (2600 MHz) / B8 (900 MHz) / GSM/GPRS/EDGE 900 MHz / 1800 MHz) / B5 (850 MHz) / B7 (2600 MHz) / B8 (900 MHz) / GSM/GPRS/EDGE 900 MHz / 1800 MHz) / B5 (850 MHz) / B7 (2600 MHz) / B8 (900 MHz) / GSM/GPRS/EDGE 900 MHz / 1800 MHz) / B5 (850 MHz) / B1 (2700 MHz) / B3 (900 MHz) / GSM/GPRS/EDGE 900 MHz / 1800 MHz) / B4 (900 MHz) / B1 (700 MHz) / B5 (850 MHz) / B1 (700 MHz) / B2 (1900 MHz) / B3 (1800 MHz) / B1 (1500 MHz) / B1 (1500 MHz) / B1 (800 MHz) / B1 (1500 MHz) / B1 (150
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LTE B2 (1900 MHz) / B4 (1700/2100 MHz (AWS)) / B5 (850 MHz) / B12 (700 MHz) / B (700 MHz) / B14 (700 MHz) / B66 (1700 MHz) / B25 (1900 MHz) / B26 (850 MHz) / B71 MHz) UMTS/HSPA B2 (1900 MHz) / B4 (1700 MHz (AWS)) / B5 (850 MHz)Band Options (JP)-JP(-T) models: LTE B1 (2100 MHz) / B3 (1800 MHz) / B1 (1500 MHz) / B18 (800 MHz) UMTS/HSPA B1 (2100 MHz) / B1 (800 MHz) / B11 (1500 MHz) / B18 (800 MHz)No. of SIMs2 Push-eject tray typeSIM FormatNano SIMCellular Antenna Connectors2 SMA female
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SIM Format Nano SIM Cellular Antenna Connectors 2 SMA female Ethernet Interface
Cellular Antenna Connectors 2 SMA female Ethernet Interface 2 SMA female
Ethernet Interface
10/100/1000BaseT(X) Ports (RJ45 connector) 2
GNSS Interface
GNSS Bands GPS (1575.42 MHz) GLONASS (1597.52 MHz) Galileo (1575.42 MHz) BeiDou (1561.098 MHz)
GNSS Antenna Connectors 1 SMA female
Input/Output Interface
Digital Output Channels 1 Relay output with current carrying capacity of 1 A @ 24 VDC
Digital Input Channels 1
Digital Inputs -30 to +3 V for state 0 +13 to +30 V for state 1
Buttons Reset button
USB Interface
No. of USB Ports 1
USB Connector USB Type A
USB Standards USB 2.0



Serial Interface

Serial Interface	
No. of Ports	1
Connector	DB9 male
Serial Standards	RS-232/422/485
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None Even Odd
Baudrate	300 bps to 921.6 kbps
Console Port	RS-232 (TxD, RxD, GND), USB type-C (115200, n, 8, 1) ¹
Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
Operation Modes	
Standards	Real COM mode RFC2217 mode TCP Client mode TCP Server mode UDP mode
LED Interface	
LED Indicators	PWR1, PWR2, STATE, USB, SIM1, SIM2, CELL, LTE, GNSS, SERIAL, VPN
Ethernet Software Features	
Management	GuaranLink Power Management Back Pressure Flow Control LLDP Syslog Wireless Search Utility MXview One MXconfig MXsecurity MRC Quick Link ²
Broadcast Forwarding	IP directed broadcast, broadcast forwarding
Configuration Options	Serial Console ¹ Web Console (HTTP/HTTPS) Command Line Interface (CLI) through Serial/Telnet/SSH
Network Protocols	DDNS DHCP Server/Client SMTP SNMPv1/v2c/v3 ARP Telnet TCP/IP UDP

We recommend using the Moxa CBL-USBCF9-GY-150 console cable, which can be purchased separately. Available in Q2, 2024. 1. 2.



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0.63 A @ 12 VDC (average) 0.33 A @ 24 VDC (average) 0.18 A @ 48 VDC (average)Input Voltage12 to 48 VDCPower Consumption7.6 W (typ.)	Power Parameters	
Power Consumption 7.6 W (typ.)	Input Current	0.63 A @ 12 VDC (average) 0.33 A @ 24 VDC (average)
	Input Voltage	12 to 48 VDC
	Power Consumption	



Power Connector	Screw-locked terminal block
Reverse Polarity Protection	Supported
Physical Characteristics	
Housing	Metal
Dimensions	125 x 46.2 x 100 mm (4.92 x 1.82 x 3.94 in)
Weight	610 g (1.34 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit)
IP Rating	IP40 ³
Environmental Limits	
Operating Temperature	Standard Models: -10 to 55°C (14 to 131°F) Wide Temp. Models: -30 to 70°C (-22 to 158°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
EMC	EN 55032/35 EN 61000-6-2/-6-4
EMI	CISPR 22, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV, Signal: 2 kV IEC 61000-4-6 CS: 10 V; 150 kHz to 80 MHz IEC 61000-4-8: 30 A/m
Freefall	IEC 60068-2-32
Hazardous Locations	IECEx ⁴ ATEX ⁴ Class I Division 2 ⁴
Railway	EN 50121-4
Traffic Control	NEMA TS2
Road Vehicles	E mark E1⁵
Radio Frequency	FCC PTCRB EN 303 413
Radio	NCC TELEC RCM KC ICID UKCA Anatel
Carrier Approvals	Verizon AT&T

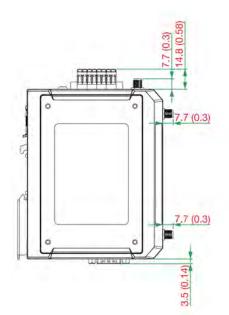
3. 4. 5. With the rubber SIM slot cover closed. Available in Q2, 2024. Available in Q1, 2024.

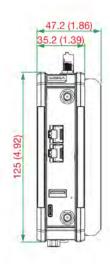


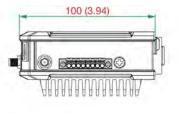
Cellular Standards	EN 301 489-1/-19 EN 301 489-1/-52 EN 301511 EN 301908-1/-2/-13
Safety	UL 62368-1 EN 62368-1
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
MTBF	
Time	-AU(-T) models: 518,722 hrs -EU(-T) models: 518,722 hrs -JP(-T) models: 522,186 hrs -US(-T) models: 521,746 hrs
Standards	Telcordia SR332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x OnCell G4302-LTE4 Series secure cellular router
Documentation	1 x quick installation guide 1 x warranty card

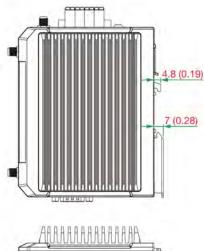
Dimensions

Unit: mm (inch)



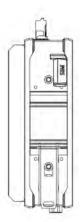






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Ordering Information

Model Name	LTE Band	Operating Temp.
OnCell G4302-LTE4-EU	B1 (2100 MHz) / B3 (1800 MHz) / B7 (2600 MHz) / B8 (900 MHz) / B20 (800 MHz) / B28 (700 MHz)	-10 to 55°C
OnCell G4302-LTE4-EU-T	B1 (2100 MHz) / B3 (1800 MHz) / B7 (2600 MHz) / B8 (900 MHz) / B20 (800 MHz) / B28 (700 MHz)	-30 to 70°C
OnCell G4302-LTE4-AU	B1 (2100 MHz) / B3 (1800 MHz) / B5 (850 MHz) / B7 (2600 MHz) / B8 (900 MHz) / B28 (700 MHz)	-10 to 55°C
OnCell G4302-LTE4-AU-T	B1 (2100 MHz) / B3 (1800 MHz) / B5 (850 MHz) / B7 (2600 MHz) / B8 (900 MHz) / B28 (700 MHz)	-30 to 70°C
OnCell G4302-LTE4-US	B2 (1900 MHz) / B4 (1700/2100 MHz (AWS)) / B5 (850 MHz) / B12 (700 MHz) / B13 (700 MHz) / B14 (700 MHz) / B66 (1700 MHz) / B25 (1900 MHz) /B26 (850 MHz) /B71 (600 MHz)	-10 to 55°C
OnCell G4302-LTE4-US-T	B2 (1900 MHz) / B4 (1700/2100 MHz (AWS)) / B5 (850 MHz) / B12 (700 MHz) / B13 (700 MHz) / B14 (700 MHz) / B66 (1700 MHz) / B25 (1900 MHz) /B26 (850 MHz) /B71 (600 MHz)	-30 to 70°C
OnCell G4302-LTE4-JP	B1 (2100 MHz) / B3 (1800 MHz) / B8 (900 MHz) / B11 (1500 MHz) / B18 (800 MHz) / B19 (800 MHz) / B21 (1500 MHz)	-10 to 55°C
OnCell G4302-LTE4-JP-T	B1 (2100 MHz) / B3 (1800 MHz) / B8 (900 MHz) / B11 (1500 MHz) / B18 (800 MHz) / B19 (800 MHz) / B21 (1500 MHz)	-30 to 70°C

Accessories (sold separately)

Antennas

ANT-5G-ASM-03	3 dBi GSM/UMTS/LTE/5G NR dipole antenna with SMA (male) connector
MAT-5G-PA-SM-2-06-3m	6 dBi MIMO panel antenna with 2 SMA (male) connectors for cellular applications, 3 m cable
MAT-5G-PA-SM-3-06-3m	6 dBi MIMO panel antenna with 3 SMA (male) connectors for cellular and GNSS applications, 3 m cable
ANT-GNSS-CSM-02-3m	2 dBic GNSS antenna with SMA (male) connector, 3 m cable
Wireless Antenna Cables	
A-CRF-SMSF-R3-100	Wireless antenna cable with SMA (male) to SMA (female) connectors, magnetic base, RG-174 type, 1 m
A-CRF-SMSF-L1-300	Wireless antenna cable with SMA (male) to SMA (female) connectors, magnetic base, LMR195 type, 3 m
A-CRF-SMSF-C2-300	Wireless antenna cable with SMA (male) to SMA (female) connectors, CFD-200 type, 3 m
A-CRF-SMSF-C2-500	Wireless antenna cable with SMA (male) to SMA (female) connectors, CFD-200 type, 5 m
Mounting Kits	
WK-41-01	Wall-mounting kit with 1 plate (41 x 144 x 7.5 mm)
WK-160-01	Wall-mounting kit with 1 plate (160 x 89 x 2.0 mm), 4 screws, black
Software	
LIC-MXviewOne-NEW-XN-SR	MXview One node license with customizable node quantity (minimum 1 node)
LIC-MXsecurity-NEW-1Y-XN-SR	1-year MXsecurity license with customizable node quantity (minimum 1 node)

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