

Explorer I

Wireless LTE Gateway Router



Value Proposition

Wireless 4G LTE Gateway Router with fast, reliable connectivity for mobile vehicles and travel-friendly performance.

Product Description

Routica Explorer I is a high-performance 4G LTE Cellular Gateway Router designed for RV, Marine, logistics, and industrial applications. It delivers 4G LTE speeds up to 300 Mbps and dual-band Wi-Fi 5 (867 Mbps) for seamless HD streaming and data transfers. Features GNSS tracking, Gigabit Ethernet, and global carrier support for maximum reliability in mobile deployments.

A Mobile Solution for RVs and Yachts

Unlike standard routers, the Explorer I is built for life on the move. It delivers reliable 4G LTE connectivity for RVs, boats, and yachts using independent 2.4GHz and 5.8GHz Wi-Fi radios, 2x2 MIMO antennas, and LTE-Advanced support for North American carriers. It comes equipped with travel-friendly features including Trip Sharing, GNSS-powered Alarm & Sentry, USB media streaming, and third-party VPN integration. All functions are easily configured using a mobile app, no external modem or PC required.

Hardware Interface

- 1 x SIM Card Slot (Full size, Push-In/Push-Out)
- 1 x SD Card slot (Not in use)
- 1 x USB 3.0
- 1 x Push Button Reset
- 7 x External Antenna Connectors:
 - 2 x SMA for Cellular (50 Ohms, Female)
 - 2 x RP-SMA for 2.4G Wi-Fi (50 Ohms, Male)
 - 2 x RP-SMA for 5.8G Wi-Fi (50 Ohms, Male)
 - 1 x SMA for GPS (50 Ohms, Female)

Wi-Fi Connectivity

- Generation: Wi-Fi 5
- Frequency Bands: Dual-Band; 2.4 GHz and 5.8 GHz
- Radios: Dual for Simultaneous 2.4 GHz and 5.8 GHz operation
- Operating Modes: Simultaneous Access Point & Client

Standards and Data Rate:

- 2.4 GHz: IEEE 802.11 b/g/n up to 300 Mbps
- 5.8 GHz: IEEE 802.11 a/n/ac up to 867 Mbps

Cellular Connectivity

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- **4G LTE (CAT 4) Global**
 - FDD Frequency Bands: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28
 - TDD Frequency Bands: B38, B39, B40, B41
 - Data Rates :
 - LTE-FDD : 150 Mbps (DL) / 50 Mbps (UL)
 - LTE-TDD : 130 Mbps (DL) / 30 Mbps (UL)
- **3G (Fallback)**
 - WCDMA Frequency Bands: B1, B2, B4, B5, B6, B8, B19
 - Data Rates :
 - DC-HSPA+ : 42 Mbps (DL)
 - HSUPA : 5.76 Mbps (UL)
 - WCDMA : 384 Kbps (DL) / 384 Kbps (UL)
- **2G (Fallback)**
 - GSM Frequency Bands : B2, B3, B5, B8
 - Data Rates :
 - EDGE : 296 Kbps (DL) / 236.8 Kbps (UL)
 - GPRS : 107 Kbps (DL) / 85.6 Kbps (UL)

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- **4G LTE (CAT 4) – North America**
 - LTE-FDD Frequency Bands: B2, B4, B5, B12, B13, B14, B66, B71
 - Data Rates:
 - LTE-FDD: 150 Mbps (DL) / 50 Mbps (UL)
- **3G (Fallback)**
 - WCDMA Frequency Bands: B2, B4, B5
 - Data Rates:
 - DC-HSPA+ : 42 Mbps (DL)
 - HSUPA : 5.76 Mbps (UL)
 - WCDMA : 384 Kbps (DL) / 384 Kbps (UL)

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- **4G LTE-A (CAT 6) – North America**
 - FDD Frequency Bands : B2, B4, B5, B7, B12, B13, B25, B26, B29, B30, B66
 - Data Rates:
 - LTE-FDD : 300Mbps (DL) / 50Mbps (UL)
- **3G (Fallback)**
 - WCDMA Frequency Bands : B2, B4, B5
 - Data Rates:
 - DC-HSPA+ : 42 Mbps (DL)
 - HSUPA : 5.76 Mbps (UL)
 - WCDMA : 384 kbps (DL) / 384 kbps (UL)

Ethernet

- **WAN Port (1 x):** 10/100/1000 Mbps, Auto MDI/MDIX
- **LAN Ports (3x):** 10/100/1000 Mbps, Auto MDI/MDIX
- **Standards:** IEEE 802.3, 802.3u, 802.3ab

Global Navigation Satellite System (GNSS)

- Simultaneous tracking of multiple constellations
- **GPS:** 1575.42 MHz (L1)
- **GLONASS:** 1597.5 MHz – 1605.8 MHz (L1)
- **Galileo:** 1575.42 MHz (L1)
- **BeiDou:** 1561.098 MHz (L1)
- **QZSS:** 1575.42 MHz (L1)

Power Input

- **Voltage:** 9 VDC to 32 VDC (12 VDC typical)
- **Current:** 2.0 A max @ 12 VDC
- **Connector:** 4-position locking

LED Indicator

- Power
- 2.4 GHz Wi-Fi
- 5.8 GHz Wi-Fi
- 4G (Cell)
- SYS
- USB
- Ethernet Link for each port

Operating Environment

- **Temperature:**
 - Operating: -20°C to 60°C (-4°F to 140°F)
 - Storage: -40°C to 70°C (-40°F to 158°F)
- **Humidity:** 10% to 90% non-condensing

Physical Dimensions

- **Dimension:** 164 x 137 x 35 mm (6.5 x 5.4 x 1.4 in)
- **Weight:** 792 g (1.74 lb)

Certifications

- **Regulatory:** ISED, FCC, CE
- **Industry:** PTCRB, GCF

Compatible Carriers

- **US Carriers:** T-Mobile, Verizon, AT&T
- **US MVNOs:** Mint Mobile, Visible, Cricket, Metro, Google Fi, Ultra Mobile, Consumer Cellular, Boost Mobile, and many others
- **Canadian Carriers:** Rogers, Bell, Telus
- **Canadian MVNOs:** Fido, Chatr, Virgin Plus, Lucky Mobile, Koodo Mobile, Public Mobile, and many others
- **Other Countries:** Contact Sales



Ordering Information

RTC15912-3 Series

Product Code	Cellular Standard	Antenna Description
RTC15912-3-0001	LTE (CAT 4)	No Antenna
RTC15912-3-3331	LTE (CAT 4)	Interior Antenna Kit
RTC15912-3-4441	LTE (CAT 4)	Exterior Antenna Kit (7-in-1)

RTC15912-4 Series

Product Code	Cellular Standard	Antenna Description
RTC15912-4-0001	LTE (CAT 4)	No Antenna
RTC15912-4-3331	LTE (CAT 4)	Interior Antenna Kit
RTC15912-4-4441	LTE (CAT 4)	Exterior Antenna Kit (7-in-1)

RTC15912-6 Series

Product Code	Cellular Standard	Antenna Description
RTC15912-6-0001	LTE-A (CAT 6)	No Antenna
RTC15912-6-3331	LTE-A (CAT 6)	Interior Antenna Kit
RTC15912-6-4441	LTE-A (CAT 6)	Exterior Antenna Kit (7-in-1)

Antenna Options & Description

Rod Antennas (Interior)

Omni-directional, high efficiency, adjustable angles for achieving good signal reception indoors.

- Cellular: SMA connector, Frequency 600 – 2690 MHz
- Wi-Fi: RP-SMA connectors, Frequency 2.4 – 2.5 GHz, 5.15 – 5.85 GHz



Peel & Stick Antennas (Interior)

Low-profile, omni-directional, high efficiency, ideal where the Router location will not allow good signal reception with Rod Antenna. Place on or near windows for better indoor signal reception.

- Cellular: SMA connector with 2.5 meters coaxial cable, Frequency 698 – 2700 MHz
- Wi-Fi: RP-SMA connectors with 2.5 meters coaxial cable, Frequency 2.4 – 2.5 GHz, 5.15 – 5.85 GHz



GNSS Antenna (Interior)

High efficiency antenna designed for stable GNSS signal reception and positioning.

- GNSS: SMA connector with 2.5 -meter coaxial cable, Frequency 1575 – 1602 MHz

Husky 7-in-1 Antenna (Exterior)

IP68-rated, omni-directional, provides best signal reception even in weak signal areas because it avoids signal loss through vehicle windows and signal reflection from objects inside the vehicle. Typically installed on the vehicle roof.

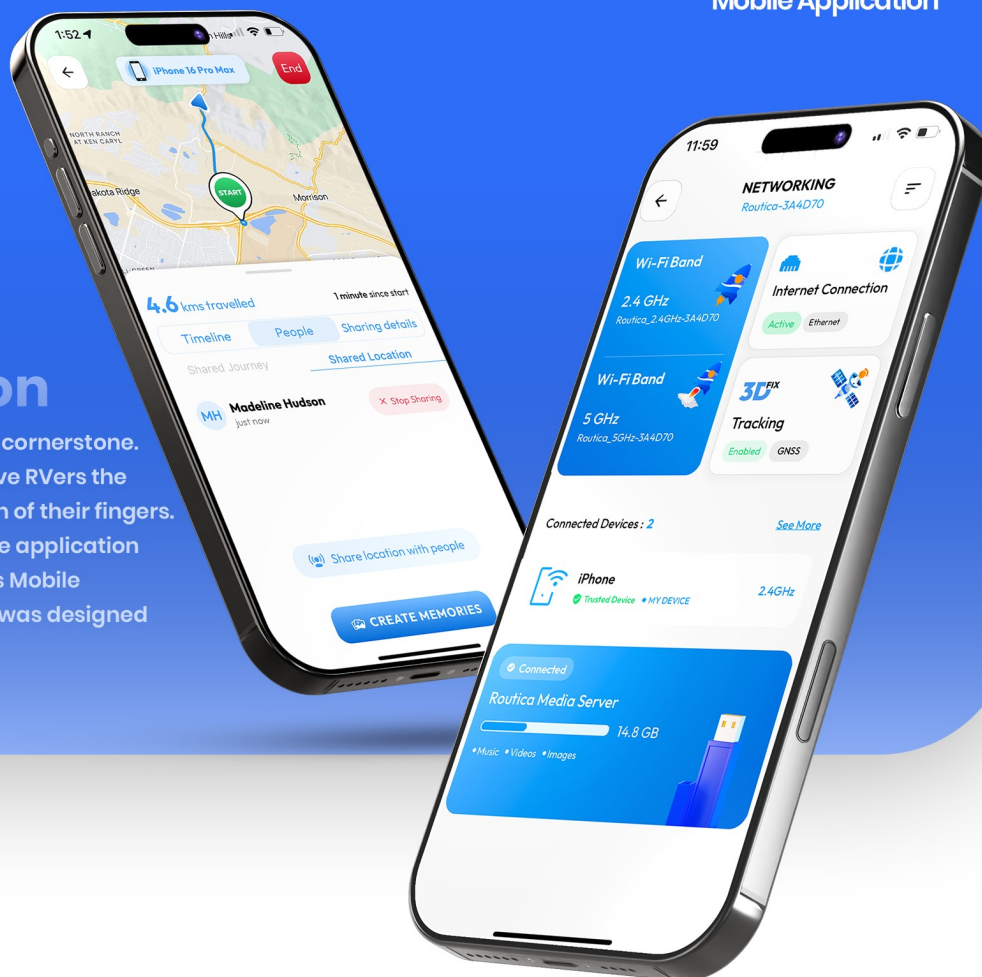
- Cellular: SMA connectors with 3.0 meters coaxial cable, Frequency 600 – 6000 MHz
- Wi-Fi: RP-SMA connectors with 3.0 meters coaxial cable, Frequency 2.4 – 2.5 GHz, 5.15 – 7.125 GHz
- GNSS: SMA Connector with 3.0 meters coaxial cable, Frequency 1575.42 – 1602 MHz -Not used in all models.



Routica

Mobile Application

In terms of mobile connectivity, this is a cornerstone. Our Quick-Access App is designed to give RVers the ability to manage tasks with just a touch of their fingers. The configuration of your router's mobile application would be the simplest of tasks. Routica's Mobile Application is mobility personified, as it was designed with the needs of users in mind.



Key Features



Share Trips With Friends & Family

Invite your Friends & Family to share your trip in real time together with the photos you take along the way. Your Friends & Family will feel as if they are with you on the trip.



Vehicle Location

Built-in GNSS enables real-time location tracking through the Routica App, where you can view your vehicle on a map. Requires the router to be powered on with an active internet connection.



Wi-Fi as WAN

Dual Wi-Fi radio technology enables your devices to share public Hotspots.



Connectivity

With LTE-Advanced CAT 6 cellular modems, capable of up to 300 Mbps download and 50 Mbps upload speeds.



Alarm & Sentry

Stay informed with movement alerts delivered through the Routica App. Get notified if your vehicle changes location while the router is powered and online.



Configuration Via Mobile App

Quick Start setup app allows router configuration and setup easily.

About Us

Routica is a division of Ositech Communications Inc. Located in Canada's technology triangle (Guelph, Ontario), Ositech Communications, Inc. provides wireless data communication solutions for use in Healthcare, EMS, Public Health, Emergency/Rescue, Food Supply Chain Safety and like industries. Ositech is well known in the industry as a developer of "best of class" products for mobile data applications, an achievement due to its continuing investment in R&D.



Contact Us

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