

Explorer II Mobile Vehicle Gateway

The EXPLORER II Mobile Vehicle Gateway is a high-performance wireless router incorporating a 5G cellular modem, Wi-Fi 6 with dual radios, multi-constellation GNSS tracking, and Gigabit Ethernet to deliver a complete connectivity solution faster than ever before.



Value Proposition

Mobile vehicle router with reliable on-the-go connectivity for all your connectivity needs.

Product Description

The EXPLORER II router is a high-performance, 5G or LTE-Advanced Pro vehicle gateway designed for communications in

RV, Marine, public safety, logistics, and industrial applications. With dual WiFi technology, multi constellation GNSS, and Gigabit Ethernet, the EXPLORER II router enables a complete connectivity solution faster, further, and better

A Mobile Solution for RVs and Yachts

Unlike standard routers, the EXPLORER II has been designed especially for RV and Yacht owners. Besides providing high speed Wi-Fi and Cellular connections to the Internet, an integrated multi-constellation GNSS for accurate location, the EXPLORER II offers features such as Trip sharing, Hotspot sharing, Alarm and Sentry that are easily setup using a mobile phone.

KEY FEATURES

- Easy configuration via mobile App
- Available with 5G or LTE-Advanced CAT 12 or CAT 16 cellular modems
- Reliable Wi-Fi as WAN
- Integrated multi-constellation Global Navigation Satellite System (GNSS)
- GNSS location and security
- Dual Wi-Fi radio technology
- Automatic switchover between Cellular / Wi-Fi / Ethernet networks
- Trip Sharing

BENEFITS

- Quick setup and configuration using mobile phone. No need for a laptop
- High throughput and reliable cellular connections.
- Easily connect to public Hotspots to reduce communication costs
- Provides better location accuracy in urban canyons and under foliage
- Locate your RV/ Yacht any time. Provides peace of mind
- The Explorer II uses dual Wi-Fi radio technology, with one radio dedicated to 2.4GHz operations and the other to 5.8GHz. Each radio (2.4GHz or 5.8GHz) operates as both STA+AP.
- Enables connection to Internet using the most efficient wireless method from any place without interrupting device connections
- Your Family and Friends (FnF) can view your trip in real time along with photos of exciting places you are passing through. Or have a record of the track you followed on a trip and review or send to FnF after your trip is over

Applications

- Recreational Vehicles
- Boats and Yachts
- Logistics
- Transit



Explorer II Router - Specification

CELLULAR		Carrier Aggregation	DL5 Supported
5G	3GPP Release 16 NSA/SA operation, Sub-6 GHz	Antenna Connectors	4 x SMA (50 Ohms) (Main, Rx-diversity/GNSS, MIMO1, MIMO2)
Data Rate (Max.)*		Explorer II SIM Slot	DUAL SIM Support, Nano size. Push-In / Push-Out
5G SA Sub-6	DL 2.4 Gbps; UL 900 Mbps		
5G NSA Sub-6	DL 3.4Gbps; UL 550Mbps		
LTE	DL 1.6Gbps; UL 200 Mbps		
WCDMA	DL 42 Mbps; UL 5.76 Mbps		
Frequency Band			
5G NR Sub-6 NSA /SA:	n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79		
LTE-FDD	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 66/ 71		
LTE-TDD	B34/ 38/ 39/ 40/ 41/ 42/ 43/ 48		
LAA	B46		
WCDMA	B1/ 2/ 4/ 5/ 8/ 19		
DL 4 x 4 MIMO			
UL 2 x 2 MIMO			
Antenna Connectors	4x SMA (50 Ohms)		
CAT12 Option (Global):			
Speed	Peak Down Link 600 Mbps, Up Link 150 Mbps		
Bands LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B9/B12/ B13/B14/B17/ B18/B20/B21/B25/ B26/B28/B29/B30/B32/B66		
Bands LTE-TDD	B38/B39/B40/B41		
Carrier Aggregation	Supported		
Antenna Connectors	2x SMA (50 Ohms)		
SIM Slot	Standard Size, Push-in/ Push-Out		
CAT16 Option (Global):			
Speed	1.0 Gbps (DL); 150 Mbps (UL)		
Bands	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/ B18/B19/B20/B25/B26/B28/B29/B30/ B32/B66 LTE-TDD: B38/B39/B40/B41/B42/B43/B46 (LAA)/B48 (CBRS) DL 4 x 4 MIMO: B1/B2/B3/B4/B7/B25/B30/B32/ B38/B39/B40/B41/B66		
ETHERNET			
Ports	1x 10/100/1000 Mbps (WAN) 4x 10/100/1000 Mbps (LAN) AUTO MDI/MDIX		
Connector	5x RJ45		
Wi-Fi			
Radios	Dual Independent concurrent operation. 2.4G & 5.8G, 802.11 b/g/n/a/ac/ax (Wi-Fi 6) Maximum 5.8G 802.11ax		
Modes	Access Point, Client		
Speed	up to 2167 Mbps		
Security	Access Point - OPEN, WPAPSK, WPA2PSK, WPAPSK/WPA2PSK, WPA3PSK, WPA2PSK/WPA3PSK, WPAPSKWPA2PSK Client - OPEN, WPAPSK, WPA2PSK, WPAPSK/WPA2PSK, WPA3PSK, WPA2PSK/WPA3PSK, WPAPSKWPA2PSK		
8 x External Antenna Connectors	4 x 5G Cellular (SMA Female) 2 x 2.4G Wi-Fi (SMA Male) 2 x 5.8G Wi-Fi (SMA Male)		
GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)			
Constellations	GPS, GLONASS, BeiDou, Galileo, QZSS Simultaneous tracking of multiple constellations.		
Antenna Type	Active or Passive Antenna		
Antenna Connector	For the 5G radio, gps is acquired through the cellular antennas. For the 4G radios, there is one gps connector.		

Explorer II Router - Specification

POWER SUPPLY

Range	9 VDC to 28 VDC
Current	2.0A (max) @ 12VDC
Connector	4 position locking.

PHYSICAL

Dimension	164 x 137 x 35 mm (6.5 x 5.4 x 1.4 in.)
Weight	780 gm (1.75 lb)

ENVIRONMENTAL CONDITIONS

Operating	-20°C to 50°C (-4°F to 122°F)
Storage	-40°C to 70°C (-40°F to 158°F)
Humidity	10% to 90% non-condensing

CERTIFICATIONS

Regulatory	FCC, ISED
Industry	PTCRB
Cellular Carrier	Verizon, AT&T, T-Mobile, Rogers, Telus, Bell

STATUS INDICATORS

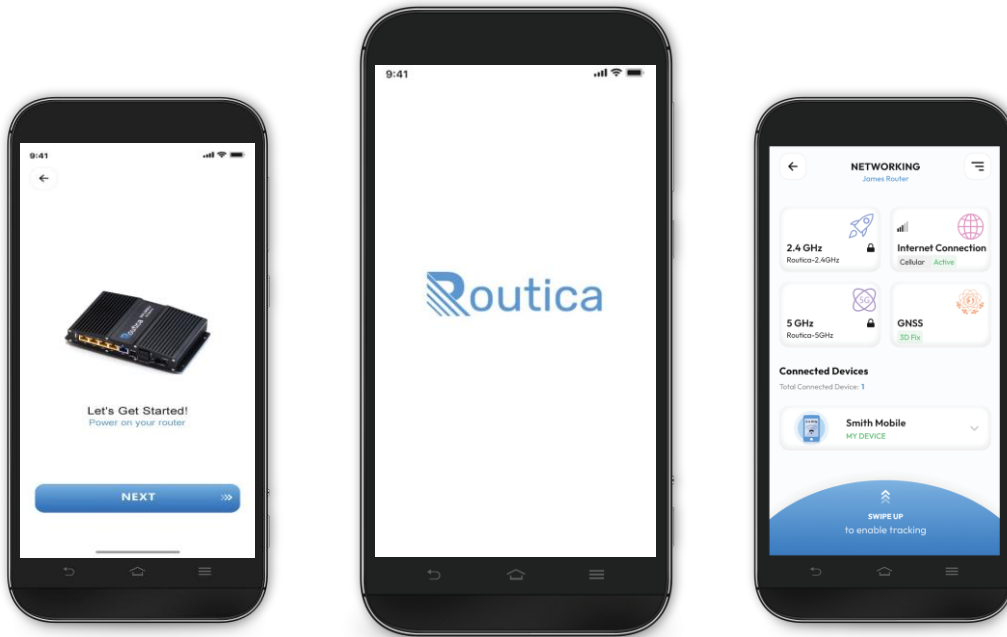
Power, Cell, 2.4GHz Wi-Fi and 5.8GHz Wi-Fi. It also has Ethernet link for each of the 5 ports.

ANTENNA OPTIONS

5G	Rod Antennas Peel and Stick on Antennas with 2.5-meter Coax Cable 9-in-1 antenna
4G-CAT12	Rod Antennas Peel and Stick on Antennas with 2.5-meter Coax Cable Magnetic mount GNSS Active Antenna with 5-meter coax cable 7-in-1 High Performance Combination Antenna for external mounting with 3-meter low loss coax cable (2x LTE, 4x WiFi, 1x GNSS) 9-in-1 antenna
4G-CAT16	Rod Antennas Peel Stick on Antennas with 2.5-meter Coax Cable 9-in-1 antenna

Routica Mobile App

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



Connectivity

With 5G or LTE-Advanced CAT 12 and CAT 16 cellular modems, capable of up to 1.0 Gbps download and 150 Mbps upload speeds.



Vehicle Location

Built-in GNSS gives you peace of mind about your vehicle. You can also check up on your loved ones from anywhere with an Internet connection.



WI-FI as WAN

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



Share Trips With Friends & Family (FnF)

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



Alarm and Security

With GNSS enabled sentry features, you are notified if your vehicle is moved.



Configuration Via Mobile App

Quick Start setup app allows router configuration and setup easily.

About Company

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.

ISO 9001:2015 Certified » Certificate #: TRC00696

ISO 14001:2015 Certified » Certificate #: TRC00697

For more information, visit www.routica.com

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