

CEL-FI ROAM R41

Mobile Cellular Coverage Solution

Kit Numbers: R41-9B-001. R41-9B-002. R41-9B-003. R41-9B-004. R41-YB-001. R41-YB-002. R41-YB-003. R41-YB-004.

The CEL-FI ROAM R41 mobile cellular coverage solution delivers reliable 3G, 4G, and 5G connectivity inside vehicles and boats. With the latest Nextivity propriety IntelliBoost chip, ROAM R41 offers enterprise-grade performance to solve poor coverage and enable dependable calling, texting, and streaming on the move. The system features plug-and-play operation for quick and easy set up, improving connectivity in any car, truck, RV, or boat within minutes. ROAM R41 also supports carrier switching through the Nextivity WAVE App for iOS and Android devices.

CEL-FI ROAM R41



Use Nextivity WAVE App to view real-time system performance.





Features and benefits include:

- Deploy the unit anywhere in the network, with full frequency coverage
- · Latest 4th generation Nextivity proprietary IntelliBoost chip delivers channelized coverage for specific mobile network operator signals
- Support for 3G, 4G, and 5G dynamic spectrum sharing (DSS)
- · Ease of installation with plug-and-play operation

Specifications

| • | |
|--|---|
| Frequency Bands | 1/3/5/7/8/20/26/28L |
| Relay Channel Bandwidths (MHz) | 5/10/15/20 |
| Networks | 3G/4G/5G |
| Network Protocols | WCDMA/LTE/DSS |
| Network Selection | Automatically (MyWave App set to "Following") |
| Configured to authorized operator | PLMN-IDs |
| Duplex Modes | FDD |
| # of Relay Bands (MHz max.) | 1 |
| Relay Bandwidth (MHz max.) | 20 |
| Output Downlink Power (All Bands) (dBm max.) | 0 |
| Output Uplink Power (Bands 5/8/20/26/28L) (dBm max.) | 22 |
| Output Uplink Power (Bands 1/3/7) (dBm max.) | 24 |
| System Gain (dBm max.) | 100 |
| Enterprise-Grade Echo Cancellation (dB min.) | 30 |
| Return Loss (dB typ.) | -8 |

Bands

| Frequency Bands | Downlink (MHz) | Uplink (MHz) | Max. Relay BW (MHz) |
|-----------------|----------------|--------------|---------------------|
| 1 | 2110-2170 | 1920-1980 | 20 |
| 3 | 1805-1880 | 1710-1785 | 20 |
| 5 | 869-894 | 824-849 | 15 |
| 7 | 2620-2690 | 2500-2570 | 20 |
| 8 | 925-960 | 880-915 | 15 |
| 20 | 791-821 | 832-862 | 20 |
| 26 | 859-894 | 814-849 | 20 |
| 28L | 758-788 | 703-733 | 20 |

Interface

| SMA (f) | | |
|--|--|--|
| SMA (f) | | |
| 5.5 x 2.5 mm (f) Barrel | | |
| Bluetooth for WAVE App | | |
| Bi-color LED (Green/Red) | | |
| USB 2.0 Micro-B | | |
| WAVE App for iOS 11.0 or later WAVE App for Android | | |
| MyWAVE App for iOS 11.0 or later MyWave App for Android | | |
| | | |

Compliance

| 3GPP | TS 25.143 Rel 13 |
|-----------|-----------------------|
| | 3GPP TS 36.143 Rel 13 |
| 0.5 | Compliant |
| CE | RED 2014/53/EU |
| RoHS3 | EN 63000: 2018 |
| ACMA/RCM | AS/NZS CISPR, 32:2013 |
| Bluetooth | LE Ver 4.2 |

Power Supply

| Power Consumption (W) max. | 18 |
|------------------------------------|----------------------------|
| Input Voltage (VDC) | 11.5 to 15 |
| Input Current (A max.) | 1.5 |
| Power Supply Plug | Automobile Auxiliary Power |
| Power Supply Cable | 18 AWG |
| Power Supply Cable Length (ft (m)) | 16.3 (5) |

Environmental

| Operating Temperature (°F (°C)) | 32 to 140 (0 to 60) |
|---|------------------------|
| Storage Temperature (°F (°C)) | -31 to 158 (-35 to 70) |
| Heat Dissipation | Passive Convection |
| Surface Temperature (°F (°C)) max. at ambient | 111.2 (44) |
| Non-condensing Humidity | 0 to 95% |
| Ingress Protection Rating | IPX0 |

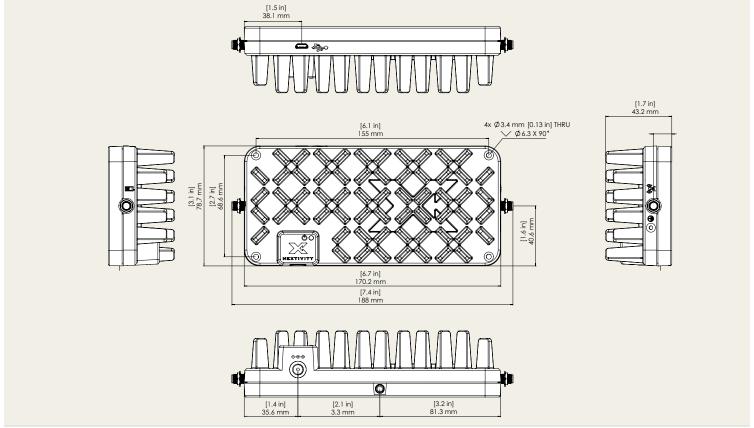
Mechanical & Packaging

| Main Unit Dimensions (in (mm)) | 6.7 x 3.1 x 1.7 (170.2 x 78.7 x 43.2) |
|--------------------------------|---------------------------------------|
| Main Unit Weight (lbs (kg)) | 1.08 (0.49) |

Ordering Information

| Kit Numbers | R41-9B-001 | R41-9B-002 | R41-9B-003 | R41-9B-004 | R41-YB-001 | R41-YB-002 | R41-YB-003 | R41-YB-004 | |
|---|---|--------------------------------------|--|-------------|---|--------------------------------------|--|---------------------------------------|--|
| Region | | EMEA | | | EMEA/APAC | | | | |
| Frequency Bands | | 1/3/7/8/20 | | | | 1/3/5/7/8/26/28L | | | |
| Box Contents | Main Unit | | | | | | | | |
| | 1x Donor Antenna (A41-V21-100) | 1x Donor Antenna (A41-V36-200) | | | 1x Donor Antenna (A41-V21-100) | 1x Donor Antenna (A41-V36-200) | | | |
| | 1x Server Antenn | na (A41-V30-100) | 1x Server Antenna (A41-V30-100) | | 1x Server Antenna (A41-V30-100) | | | 1x Server Antenna (A41-V30-100) | |
| | 1x Automobile Auxiliary Power Adapter (290N035-005) | | | | | | | | |
| | 4x Mounting Screws | | | | | | | | |
| | 2x Mounting Velcro | | | | | | | | |
| | Quick Installation Guide | | | | | | | | |
| Kit Shipping Dimensions (in (mm)) | | .94 x 3.23 00 x 82) | 8.47 x 3.94 x 3.19 (215 x 100 x 81) | | 12.40 x 3.94 x 3.23 (315 x 100 x 82) | | 8.47 x 3.94 x 3.19 (215 x 100 x 81) | | |
| Kit Shipping Weight (lbs (kg)) | 2.20 | (1.0) | 1.74 (0.79) | 1.87 (0.85) | 2.20 | (1.0) | 1.74 (0.79) | 1.87 (0.85) | |
| Harmonized Tariff Schedule (HTS) | 8517.18.00.50 | | | | | | | | |
| Export Control Classification Number (ECCN) | EAR99 | | | | | | | | |

CEL-FI ROAM R41 Main Unit Outline



Product specifications are subject to change without prior notification.

