



CEL-FI ROAM R41

Mobile Cellular Coverage Solution









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.

Features and benefits include:

- Deploy the unit anywhere in the network, with full frequency coverage
- Latest 4th generation Nextivity proprietary IntelliBoost chip delivers channelised 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

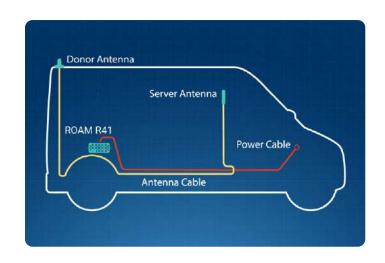




Improve Your Coverage in Minutes

With enterprise-grade performance and its easy-toinstall design, CEL-FI ROAM R41 can be set up, powered on, and improve cellular connectivity in no time. Whether you're in a car, truck, RV, or boat, ROAM R41 will keep you connected when you're on the move.

The system's low-profile design allows you to install it discretely under any seat, while its rugged frame offers trusted durability, so people and crews can keep their connection – improving productivity and safety.





Choose Your Carrier

ROAM R41 is compatible with a wide range of bands to give you peace of mind that the system will boost your carrier's signal. And if your friends or family use a different mobile network operator, through the Nextivity WAVE App you can easily switch what carrier to boost depending on location and coverage challenges.

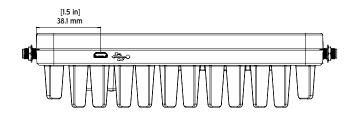
Unmatched Performance

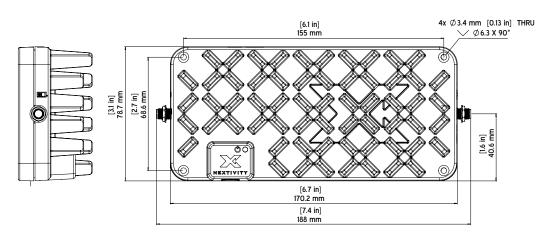
Equipped with the latest 4th generation Nextivity proprietary IntelliBoost chip. ROAM R41 features the same technology that is used in our enterprise cellular coverage solutions. This gives you industry-leading signal gain that ensures you can always make a call, send a text, listen to music, or stay on the right route while in your car or boat.

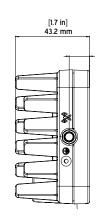


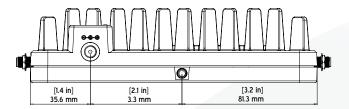


CEL-FI ROAM R41 Main Unit Outline









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	20
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



Specifications

CEL-FI ROAM R41				
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 authorised 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			
INT	TERFACE			
Donor RF Connector	SMA (f)			
Server RF Connector	SMA (f)			
DC Input	5.5 x 2.5 mm (f) Barrel			
Device Setup	Bluetooth for WAVE App			
Power & System Status	Bi-color LED (Green/Red)			
Factory Debug only	USB 2.0 Micro-B			
System Management & SW Updates	WAVE App for iOS 11.0 or later WAVE App for Android			
Band Selection	MyWAVE App for iOS 11.0 or later MyWave App for Android			
СОМ	IPLIANCE			
2000	TS 25.143 Rel 13			
3GPP	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 18 AWG		
Power Supply Cable	16.3 (5)		
Power Supply Cable Length (ft (m))	6 ft (1.8 m)		
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	IPXO		
MECHANICAL & PACKAGING			
Main Unit Dimensions (in (mm))	6.7 x 3.1 x 1.7 (170.2 x 78.7 x 43.2) 1.08 (0.49)		
Main Unit Weight (lbs (kg))	19.4 lbs (8.80 kg)		

Ordering Information

Model	R41-YB-003
Region	EMEA/APAC
Frequency Bands	1/3/5/7/8/26/28L
	Main Unit
	1x Automobile Auxiliary Power Adapter
Box Contents	4x Mounting Screws
	2x Mounting Velcro
	Quick Installation Guide
Kit Shipping Dimensions (in (mm))	8.47 x 3.94 x 3.19 (215 x 100 x 81)
Kit Shipping Weight (lbs (kg))	1.74 (0.79)