

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

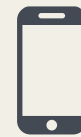
The CEL-FI ROAM R41 mobile cellular coverage solution delivers reliable 3G, 4G, and 5G connectivity inside vehicles and boats. With the latest Nextivity propriety IntelliBoost chip, ROAM R41 offers enterprise-grade performance to solve poor coverage and enable dependable calling, texting, and streaming 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.

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



CEL-FI ROAM R41



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



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	
5	869-894	824-849	
7	2620-2690	2500-2570	
8	925-960	880-915	15
20	791-821	832-862	20
26	859-894	814-849	
28L	758-788	703-733	

Interface

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

Compliance

3GPP	TS 25.143 Rel 13
	3GPP TS 36.143 Rel 13
CE	Compliant
	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 max.)	12
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

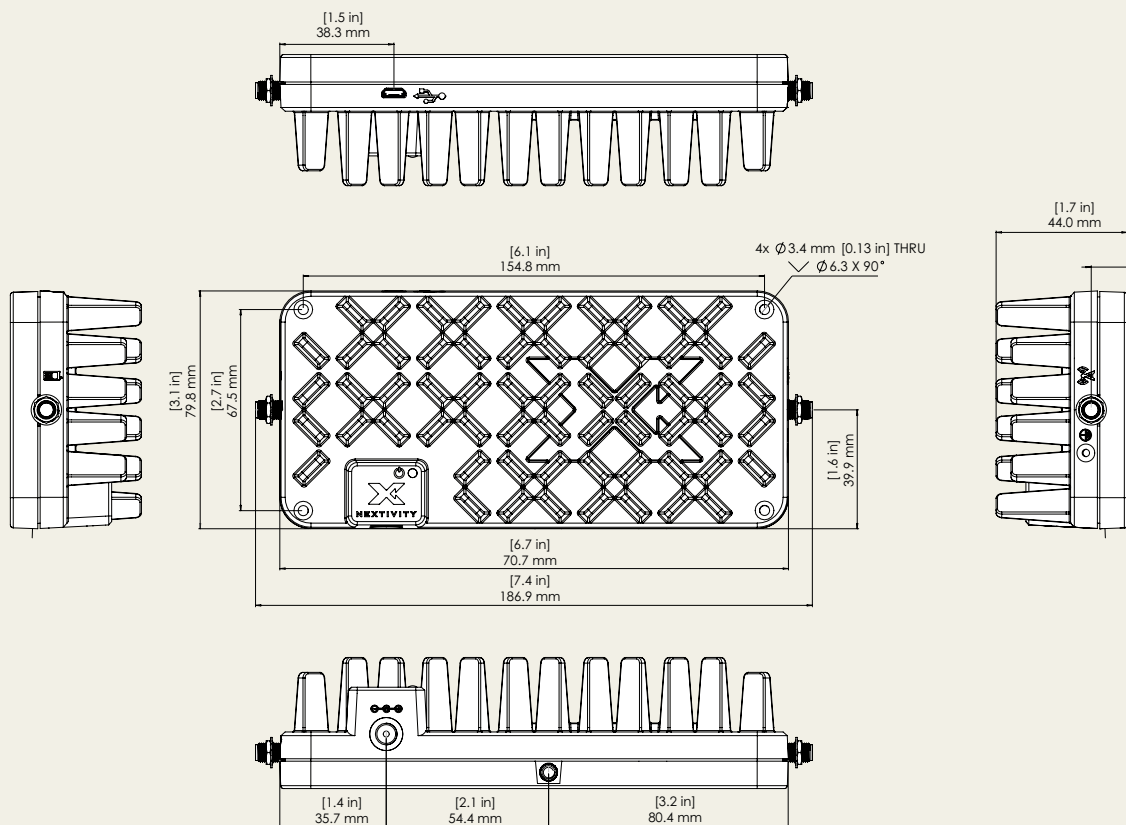
Mechanical & Packaging

Main Unit Dimensions (in (mm))	6.7 x 3.1 x 1.7 (170.7 x 79.8 x 44.0)
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 Mag-Mount Donor Antenna	1x Screw-Mount Donor Antenna			1x Mag-Mount Donor Antenna	1x Screw-Mount Donor Antenna		
	1x Server Antenna			1x Server Antenna	1x Server Antenna			1x Server Antenna
	1x Automobile Auxiliary Power Adapter							
	4x Mounting Screws							
	2x Mounting Velcro							
	Quick Installation Guide							
Kit Shipping Dimensions (in (mm))	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)		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)

CEL-FI ROAM R41 Main Unit Outline



Product specifications are subject to change without prior notification.



nextivityinc.com/roam-r41

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