Mobile Phone Signal Repeater for Either Telstra, Optus or Vodafone 3G/4G/5G* (Mobile - Vehicle/Marine Vessel)

56MM-CFR4

Matchmaster
For the Best

The CFR4 Cel-Fi Roam R41 mobile cellular coverage solution delivers reliable 3G, 4G, and 5G* connectivity inside cars, vans, trucks, caravans, boats, and other mobile applications. 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 setup, improving connectivity in any car, truck, caravan or boat within minutes. ROAM R41 also supports carrier switching through the Nextivity WAVE App for iOS and Android devices for either Telstra, Optus or Vodafone.

Features and Benefits

- Mobile repeater for either Telstra, Optus or Vodafone signal: select your preferred provider on setup with one carrier at a time.
- Supports 700L, 850, 900, 1800, 2100, 2600 plus band 20 and 26
- Designed for repeating mobile signals in vehicles and vessels on the move, cars, trucks, trains, caravans and boats.
- Used with the Cel-Fi WAVE app for mobile phones, tablets and PCs for easy setup.
- The latest 4th generation Nextivity proprietary IntelliBoost chip delivers channelised coverage for specific mobile network operator signals.
- Simple plug-and-play design.

* Does not include band 78 (3500 MHz) but will support 5G DSS operation when deployed by operators.

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Specifcations			
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	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
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	
		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		Bluetooth	
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)