



NEXTIVITY ROAM R41 Smart Mobile Repeater User Guide

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NEXTIVITY ROAM R41 Smart Mobile Repeater



Product Information

The product is the ROAM R41, a cellular signal booster designed to improve cellular signal strength for mobile

devices in vehicles or boats. It includes the following components:

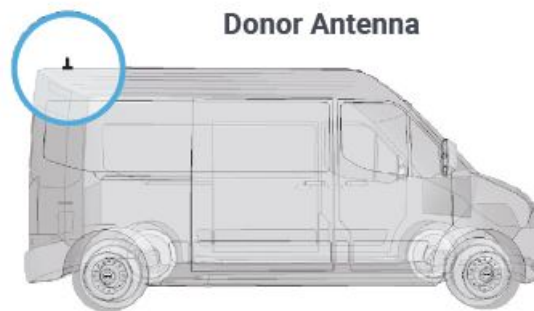
- Main Unit
- Automobile Auxiliary Power Adapter
- Mobile Donor Antenna*
- Server Antenna*
- Mounting Hardware
- Ground Cable

The ROAM R41 must be kept indoors in a dry, cool, and well-ventilated area.

Product Usage Instructions

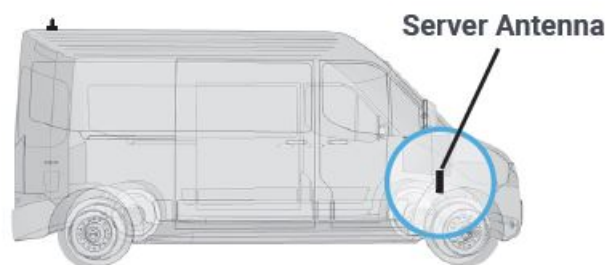
1. Install the Donor Antenna:

- Mount the Donor Antenna on the exterior and towards the rear of your automobile or boat.
- Ensure there is 50 cm of metal around the base of the antenna for optimal performance.



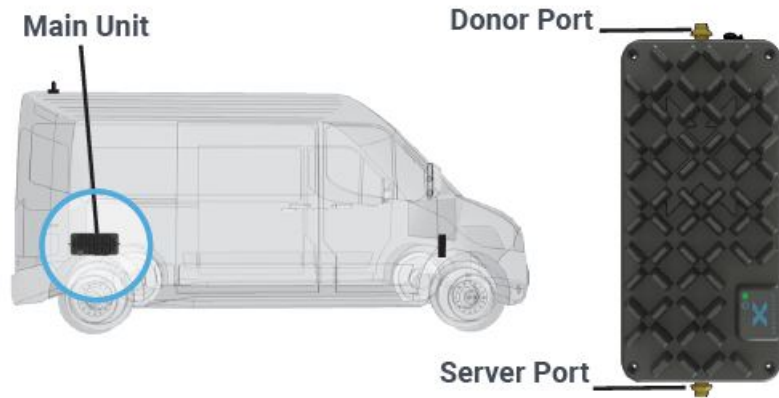
2. Install the Server Antenna:

- Mount the Server Antenna in the cabin/deck towards the front of the vehicle where coverage is needed.
- Mount the Server Antenna horizontally.
- Separate/isolate the Donor Antenna as far away as possible from the Server Antenna for best performance.



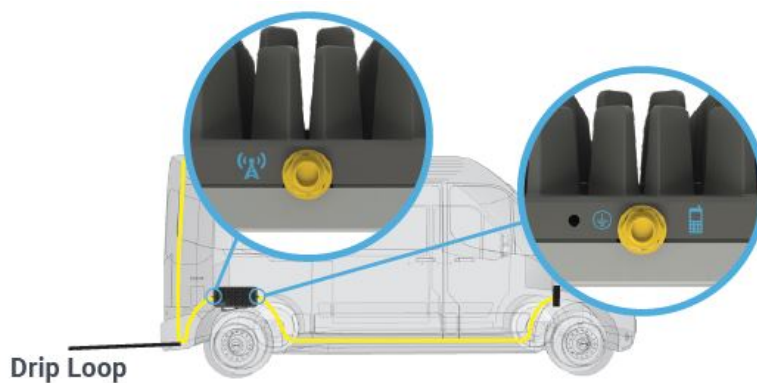
3. Select the Main Unit Location:

- Find a suitable location to securely mount the Main Unit.
- Ensure airflow around the Main Unit and avoid contact with other objects.
- Choose a location that provides enough distance for all cables to connect.



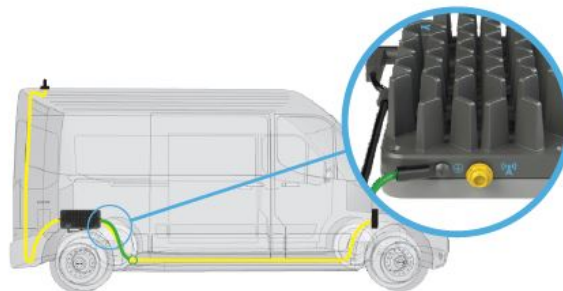
4. Attach Server and Donor Antennas to the Main Unit.

Attach the Donor Antenna and Server Antenna to the Main Unit. Note: Adding a drip loop to the Donor Antenna cable is crucial as it prevents water from flowing down the cable and damaging the Main Unit's electronic equipment.



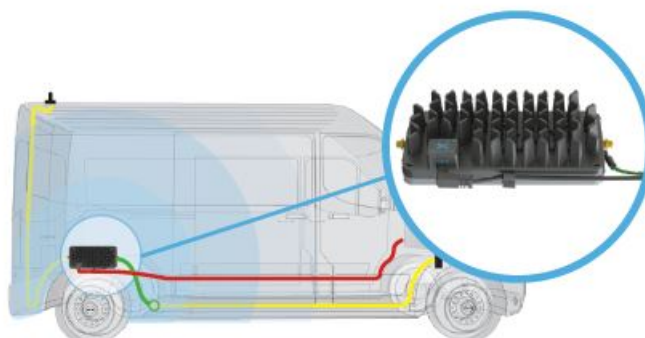
5. Install the Ground Cable:

- Attach one end of the ground cable to the Main Unit and the other end to the chassis of the automobile or boat.
- Add a drip loop to the Donor Antenna cable to prevent water damage to the Main Unit.



6. Plug in the Main Unit using the provided power adapter.

Using the provided M3 screw, attach one end of the ground cable to the Main Unit and the other end to the chassis of the automobile or boat.



7. Download the Nextivity WAVE App or MyWave App to monitor and manage the status of your ROAM R41 and

set it to automatically track the base station to which your phone is connected.



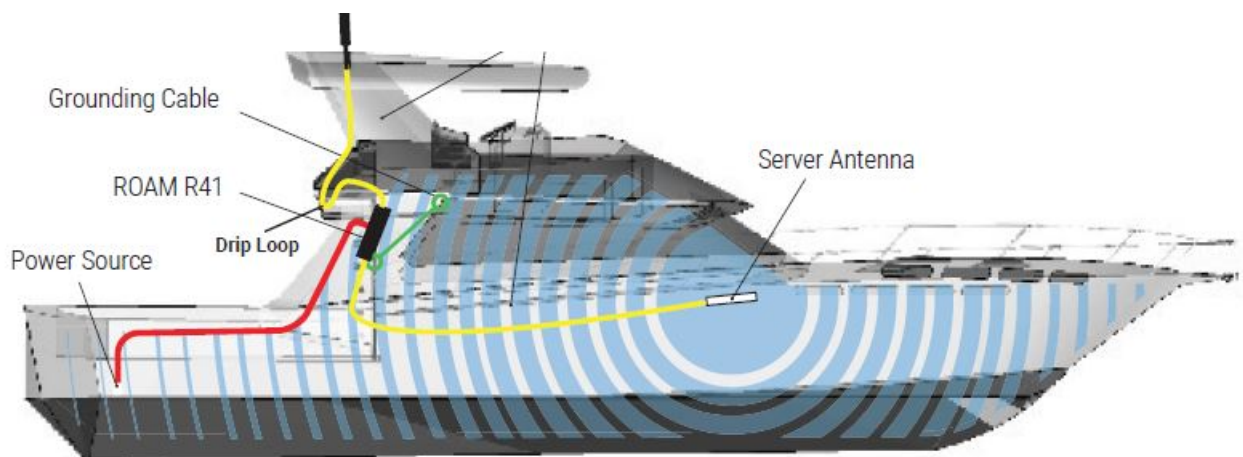
Download the MyWave App to set your ROAM R41 to automatically track the base station to which your phone is connected.

Scan to Download



Note: For detailed LED indicator behavior and translation/error states, please refer to the product manual.


Marine Installation



Model#	Bands Supported	Link	Output Power (dBm)
R41-YB	1/3/5/7/8/26/28L	Downlink	_____ 0 _____
		Uplink	22
R41-9B	1/3/7/8/20	Downlink	_____ 0 _____
		Uplink	22
Power/Status LED Indicator			
LED Behavior		Translation/Error State	
No light		Device is powered OFF	
Solid Orange		Device is powered ON	
—		Device is booting up	
Slow blinking green		Device is band scanning to acquire network signals	
Solid Green		Device is operating normally and providing coverage	
Solid Red		Hardware Error (ES1)—Disconnect & Reconnect	
Flash RED 1 time & OFF for 4sec		Device is not receiving signal from the cellular network (ES2)	
Flash RED 2 times & OFF for 4sec		Donor input signal is too strong for the device (ES4)	
Flash RED 3 times & OFF for 4sec		Device’s server antenna is too close to donor antenna (ES7)	
Flash RED 4 times & OFF for 4sec		Device is disabled by the operator (ES9)	
Flash RED 5 times & OFF for 4sec		Device location lock pending (ES10)	
Flash RED 6 times & OFF for 4sec		Device registration pending (ES11)	
Flash RED 7 times & OFF for 4sec		Device Self-Test Failed (ES12)	

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Documents / Resources

	<p>NEXIVITY ROAM R41 Smart Mobile Repeater [pdf] User Guide R41-9B-001, R41-9B-002, R41-9B-003, R41-YB-001, R41-YB-002, R41-YB-003, ROAM R41 S mart Mobile Repeater, ROAM R41, Smart Mobile Repeater, Mobile Repeater, Repeater</p>
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