

VBOX Telemetry Radios



Our radios are designed to be used with the VBOX range and can transmit and receiving RS232 serial data wirelessly. As radio requirements differ around the world, RACELOGIC offers a range of radio modules, allowing you to select the most suitable frequency and range for your region.

2.4 GHz Radio Range (Worldwide)

These 2.4 GHz radios can be used in all countries and can be used to transmit DGPS corrections for ADAS car to car telemetry or VBOX serial data from a remote unit to a laptop PC.

2.4 GHz Radio Range (USA, Canada, Mexico, Brazil, Australia, and New Zealand)

The 2.4 GHz radios offer a higher output for extended range and can be used in permitted countries. They can be used to transmit DGPS corrections for ADAS car to car telemetry or VBOX serial data from a remote unit to a laptop PC.



Variable Frequency Radio Range

The variable frequency radios can be set to transmit / receive data between 403 and 470 MHz. The variable frequency and power of these radios makes them accepted in many countries. With a max range of 10 km, the radios can be used with a Base Station to provide DGPS corrections to a VBOX. Dedicated versions for China and Korea are available.



915 MHz Radio Range

The 915 MHz radios can be used in the USA and have a max range of 3.5 km. The radios can be used with a Base Station to provide DGPS corrections to a VBOX.

869 MHz Radio Range

Operating at 869.4-869.65MHz, these radios can be used throughout Europe, China, and Korea, and have a max. range of 5 km. The radios can be used with a Base Station to provide DGPS corrections to a VBOX.

VBOX Telemetry Radios



What are VBOX Radio Modules used for?

Differential GNSS corrections

- Connecting to a Base Station to transmit positional corrections to a remote VBOX
- Connecting to a VBOX to receive positional corrections from a Base Station
- Connecting to a Moving Base Station to transmit relative corrections to a remote VBOX
- Connecting to a VBOX to receive relative corrections from a Moving Base Station

ADAS system

- Connecting two or more VBOXs to measure vehicle separation

Telemetry

- Connecting to a remote VBOX to transmit serial data to a laptop PC
- Connecting to a laptop PC to receive serial data from a remote VBOX

Radios by Application

VBOX to PC Telemetry

Stock Code	Connect To	Application	Transmit/Receive	Frequency	Country	Power	Max Range
RLRTMXB2VBT	VBOX or PC	Communicate between VBOX unit and PC	Transmit & Receive	2.4 GHz	All	+8 dBm	600m – 800m
RLRTMXB2VBT-P	VBOX or PC	Communicate between VBOX unit and PC	Transmit & Receive	2.4 GHz	USA + Permitted countries	+19 dBm	1.5km – 2km

Base Station Radios

Stock Code	Connect To	Application	Transmit/Receive	Frequency	Country	Power	Max Range
RLRTM869BS	Base Station	Transmit DGPS corrections	Transmit	869.400 - 869.650 MHz	Europe	10 - 500 mW	5 km
RLRTM869RV	VBOX	Receive DGPS corrections	Receive	869.400 - 869.650 MHz	Europe	-	
RLRTM915BS	Base Station	Transmit DGPS corrections	Transmit	915 MHz	USA	500 mW	3 km
RLRTM915TR	VBOX	Receive DGPS corrections	Receive	915 MHz	USA	-	
RLRTMVARBS	Base Station	Transmit DGPS corrections	Transmit	403 - 470 MHz	Most	100 - 1000 mW	10 km
RLRTMVARR	VBOX	Receive DGPS corrections	Receive	403 - 470 MHz	Most	-	

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RLRTMVARBSCH	Base Station	Transmit DGPS corrections	Transmit	223.025 - 235 MHz	China	100 - 2000 mW	10 km
RLRTMVARRCH	VBOX	Receive DGPS corrections	Receive	223.025 - 235 MHz	China	-	
RLRTMVARBSKR	Base Station	Transmit DGPS corrections	Transmit	424.7125 - 424.95 MHz	Korea	100 mW	3.5 km
RLRTMVARRKR	VBOX	Receive DGPS corrections	Receive	424.7125 - 424.95 MHz	Korea	-	
RLRTMXB2BS	Base Station	Transmit DGPS corrections	Transmit	2.4 GHz	All	+8 dBm	1.2 km
RLRTMXB2	VBOX	Receive DGPS corrections	Receive	2.4 GHz	All		
RLRTMXB2BS-P	Base Station	Transmit DGPS corrections	Transmit	2.4 GHz	USA + Permitted countries	+19 dBm	3.2 km
RLRTMXB2P	VBOX	Receive DGPS corrections	Receive	2.4 GHz	USA + Permitted countries	+19 dBm	

ADAS / Moving Base Radios

Stock Code	Connect To	Application	Transmit/Receive	Frequency	Country	Power	Max Range
RLRTMXB2	VBOX	Communicate between VBOXs	Transmit/Receive	2.4 GHz	All	+8 dBm	500 m
RLRTMXB2P	VBOX	Communicate between VBOXs	Transmit/Receive	2.4 GHz	USA + Permitted countries	+19 dBm	1 km

Please Note: Allowable frequencies and power outputs vary in every country. Users must ensure that the radio to be used is legal in the country, and that any required licenses are held.