

Telemetry Radios (USA/Brazil/Australia)

(RLRTM915V2BS / RLRTM915V2RV)



The Racelogic RLRTM915V2BS / RLRTM915V2RV radio modules are designed for use with the VBOX range of products. Each module contains a high power radio modem capable of transmitting and receiving RS232 serial data.

Operating at 915 MHz, the radios can be used with a Base Station throughout the USA, Brazil and Australia to provide DGPS corrections to a VBOX.

The **Base Station variant (RLRTM915V2BS)** is designed to connect to the Racelogic Base Station and transmit DGPS corrections to a remote VBOX.

The **VBOX variant (RLRTM915V2RV)** is designed to connect to a VBOX to receive DGPS corrections from a Base Station.



Transmission Range

- **Difficult environment (e.g. buildings, reinforced concrete):**
300 m (1,000 ft)
- **Open environment with antennas at ground level (e.g. vehicle roofs):**
700 m (2,300 ft)
- **In view with Base Station antenna at height (e.g. building roof):**
3500 m (11,000 ft)

Note: Obstacles such as walls and trees can greatly affect the range.

Features

- Powerful 1 W radio giving range up to 3500 m
- Simple connection directly to VBOX (one cable)
- Each radio supplied with magnetic mounting antenna
- Uses 915 MHz licence free radio band

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Specifications

Input Voltage	6 – 30 V DC
Input Current - Receiving	125 mA @ 5 V
Input Current - Transmitting	760 mA @ 5 V
Radio Transmission Power	1 W
Base Station Duty Cycle	< 10 %
Carrier Frequency	915 MHz
Radio Data Rate	115,200 bit/s
RS232 Data Rate	115,200 bit/s

Physical

Module Dimensions	95 mm x 60 mm x 33 mm
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +85°C

Package Contents

RLRTM915V2BS

Description	Product Code
Base Station Transmit Radio Module	RTM915-V2
VBOX Base Station Antenna	RLACS142-915
Base Station Mast Mount Radio option for greater range	RLACS153

RLRTM915V2RV

Description	Product Code
VBOX Transmit & Receive Radio Module	RTM915-V2
Serial PC Cable for Radio	RLCAB032
Antenna for Radio System	CABMAGDUAL
5 Way Lemo to 5 Way Lemo – 300mm	RLCAB006