## **Telemetry Radios (Satel - EU)**

(RLRTM869BS / RLRTM869RV)



The Satel 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 a frequency range between 869.4125 and 869.6375 MHz, the radios can be used with a Base Station throughout Europe to provide DGPS corrections to a VBOX.

The **Base Station variant (RLRTM869BS)** is designed to connect to the Racelogic Base Station and transmit DGPS corrections to a remote VBOX.



The VBOX variant (RLRTM869RV) is designed to connect to a VBOX to receive DGPS corrections from a Base Station.

### **Transmission Range**

- Difficult environment (e.g. buildings, reinforced concrete): 400 m (1,300 Feet)
- Open environment with antennas at ground level (e.g. vehicle roofs): 1000 m (3,200 Feet)
- In view with Base Station antennas at height (e.g. building roof): 5,000 m (16,400 Feet)

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

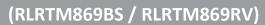
#### **Features**

- Powerful 500mW radio giving range up to 5000m (16,400 Feet)
- Simple connection directly to VBOX (one cable)

- Each radio supplied with magnetic mounting antenna
- Pan-European licence free frequency band 869.400 ... 869.650 MHz



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## **Specifications**

Input Voltage	6 - 30V DC
Radio Transmission Power	10, 20, 50, 100, 200, 500mW
Base Station Duty Cycle	< 10%
Carrier Frequency	869.40 – 869.65MHz
Radio Data Rate	19200 bps
RS232 Data Rate	300 – 38.400 bps (configurable)
Approvals	Complies with the following international standards: EN 300 113-2 (Annex A), EN60950 (Safety), EN 301 489 (EMC), FCC CFR47 section 90

## **Physical**

Module Dimensions	88 x 49 x 9 mm
Weight	50g
Operating Temperature	-30°C to +65°C
Storage Temperature	-40°C to +80°C

## **Package Contents**

#### RLRTM868BS

Description	Product Code
Base Station Transmit Radio Module	YM6501
VBOX Base Station Antenna (Variable) – 5m	RLACS142-VAR

For improved range a Mast Mount Option can be ordered separately (RLACS153-VAR).

#### RLRTM868TR

Description	Product Code
VBOX Transmit & Receive Radio Module	YM6501
Magnetic Mount Antenna	KG-MAG
Satel Radio Modem to VBOX DGPS Cable	RLCAB096L

