



Overview

The RLVBRTM3E / RLVBRTM3U modules from Racelogic are radio modems for use with the VBOX range of products. Each module contains a high power radio modem capable of transmitting and receiving RS232 serial data. Two radio telemetry modules may be used for example, to transmit VBOX serial data from a remote unit to a laptop PC at a maximum rate of 5Hz. Modules can also be used to receive differential correction information (DGPS) from a Racelogic Base Station for local position correction.

The modules can be configured to any one of 10 available channels so that more than one Telemetry system can be used in the same area.



Transmission Ranges

- Difficult environment: 150 to 300 m, (500 to 1,000 Feet)
(e.g.: buildings, reinforced concrete)
- Open environment with Antennas at ground level: 1 000 to 1 400 m, (3,400 to 4,500 Feet)
(e.g.: Vehicle roofs)
- In view with Antennas at height: 3 500 m, (11 000 Feet)
(e.g.: between buildings)

Obstacles such as, Walls, trees, obstacles can strongly reduce the range.

Features

- 10 configurable channels, for multi-telemetry use.
- Powerful 500mW radio giving range up to 3500m
- Simple connection directly to VBOX (one cable)
- Each radio supplied with magnetic mounting antenna

Specification

Input voltage	6 to 18VDC
Input current - Receiving	<100mA
Input current - Transmitting	<900mA
Radio transmission power	500mW
Carrier Frequency	868Mhz (Euro) 915Mhz (USA)
Radio data rate	9.6kbit/s
RS232 data rate	115,200kbit/s (configurable)

Standard Inventory

Description	Qty (RLVBTELEM3E)	Qty (RLVBTM3E)	Racelogic Part #
Radio Telemetry Modem	2	1	VBRTMU or VBRTME
Magnetic Mounting antenna	2	1	ANTEN-910MAG or ANTEN-858MAG
RS232 Cable – Radio to PC	1	1	RLVBCAB32
VBOX connection cable – Radio to VBOX	1	1	RLVBCAB05