Variable Frequency Radios (RLRTMVARBS / RLRTMVARR)



The long distance, variable frequency radios can be set to transmit or receive data between 403 and 470MHz.

The variable frequency and power of these radios makes them viable in many countries. Please check local RF licensing regulations.

With a typical max range of 10km (at 1W), the radios can be used with a Base Station to provide DGPS radio coverage to most areas of a proving ground.



Transmission Range

- Difficult environment (e.g. buildings, reinforced concrete):
 1-2km (max. 6,561 ft)
- Open environment with antennas at ground level (e.g. vehicle roofs):
 3-5km (max. 16,404 ft)
- In view with Base Station antenna at height (e.g. building roof): 6-10km (max. 32,808 ft)

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

Features

- Powerful 1 W radio giving range up to 10km
- Simple connection directly to VBOX (one cable)
- Each radio supplied with magnetic mounting antenna



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Specifications

Input Voltage	3 - 9V DC (Option 1)
	6 - 30V DC (Option 2)
Radio Transmission Power	100, 200, 500, 1000mW
Base Station Duty Cycle	< 10%
Carrier Frequency	330 – 420MHz /
	403 – 473 MHz
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 mm x 9 mm
Weight	50g
Operating Temperature	-30°C to +65°C
Storage Temperature	-40°C to +80°C

Package Contents

Base Station Transmit Radio Module (RLRTMVARBS)

Description	Product Code
VBOX Transmit and Receive Radio (Satel)	YM6500
Base Station Radio Antenna	RLACS142-VAR

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

VBOX Receive Radio Module (RLRTMVARR)

Description	Product Code
VBOX Receive Radio (Satel)	YM6500
Mag Mount Antenna with 3m Cable	KG-MAG
40 cm Satel Radio Modem to VBOX DGPS Cable (5-Way Lemo to 15-Way D Plug)	RLCAB096L
40 cm Satel Radio Modem Config Lead (15-Way D to 9-Way D + 2-Way Lemo Socket)	RLCAB097L

