

Variable Frequency Radios

(RLRTMVARBSKR / RLRTMVARRKR)



These Satel radios are a dedicated to meet Korean 'licence free' guideline on wireless transmissions.

They are variable frequency radios that can be set to transmit or receive data between 424.7125 – 424.95MHz. (Korean 'licence free' frequency band)

With a typical max range of 3500m (at 10mW), 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):**
300 m (1,000 Feet)
- **Open environment with antennas at ground level (e.g. vehicle roofs):**
700 m (2,300 Feet)
- **In view with Base Station antenna at height (e.g. building roof):**
3,500 m (11,000 Feet)

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

Features

- Simple connection directly to VBOX (one cable)
- Each radio supplied with magnetic mounting antenna
- Meets Korean licence free exception

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Specifications

Input Voltage	3 - 9V DC (Option 1) 6 - 30V DC (Option 2)
Power Consumption	Receiver: < 1.2 W Transmitter: 3 W @ 0.5 W output power / 7 W @ 1 W output power
Radio Transmission Power	10mW
Base Station Duty Cycle	< 10%
Carrier Frequency	424.7125-424.9500MHz
Radio Data Rate	19200 bps
RS232 Data Rate	300 – 38.400 bps (configurable)

Physical

Module Dimensions	88 mm 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 (RLRTMVARBSKR)

Description	Product Code
VBOX Transmit and Receive Radio (Satel)	3AS-KR
Base Station Radio Antenna	RLACS142-218

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

VBOX Receive Radio Module (RLRTMVARRKR)

Description	Product Code
VBOX Receive Radio (Satel)	3AS-KR
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
40cm Satel Radio Modem Config Lead (15-Way D to 9-Way D + 2-Way Lemo Socket)	RLCAB097L