

# RYB

*Extend Your Reach*

## Mobile Extender

When the power of a handheld radio isn't enough, extend your range by turning your vehicle into a mobile repeater with the RYB from RELM Wireless Corporation.

The RYB consists of a low power VHF or UHF transceiver and repeater crossover mounted in a compact ruggedized aluminum case. The BNC antenna connector and Molex power plug make for easy installation. When connected to a mobile radio, via a DB9 connector, the RYB relays transmissions away from the vehicle using the mobile radio to increase power and coverage.

Compact design and easy operation the RELM RYB provides an excellent solution to problem coverage areas.

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## Specifications

### General

Frequency Range 150-174 or 450-470 MHz  
RF Power Output 5/1 VHF or 4/1 UHF -  
Channels - Single Channel only  
Operating Voltage 13.5vdc  
Operating Temperature -30C to +60C  
Operating Bandwidth 14 MHz VHF or 10/20 MHz UHF  
Channel Increments 5/6.25 kHz or VHF 12.5 kHz UHF  
Channel Spacing 30 kHz VHF or 25 kHz UHF  
Frequency Stability +/- 5 PPM  
Weight 1.5 lbs  
Dimensions (inches) 4.135L x 4.125W x 2.725H  
CTCSS/CDCSS  
Standard Busy Channel Lockout Standard  
Time Out Timer Standard  
Intermittent duty repeater - duty cycle 5-5-90

### Accessories

DC Power Cord - RYBDC  
Programming Software - AMX793  
Programming Cable - AMX501P

### Receiver

Sensitivity-12dB Sinad 0.35 uV  
Selectivity >60 dB  
IM Rejection >60 dB  
Spurious Response >60 dB  
Image Response >60 dB  
Audio Output 500 mW @ <5% Distortion  
Signal Displacement +/-3.75 kHz

### Transmitter

Hum & Noise -40 dB  
Audio Distortion <5%  
Spurious & Harmonics -50 dB  
Modulation 16K0F3E



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