

# RMV

128 Channels VHF

# RMU

128 Channels UHF

# RELM/BK

Professional

Mobile Radio

- 128 Channels
- Alphanumeric Display
- 2-Tone Decoder & Encoder
- Scan with Dual Priority
- Nuisance Channel Delete
- PC Programming and Tuning
- Field Programmable
- 12.5/25khz Channel Spacing per Channel
- Busy Channel Lockout
- Time-out Timer
- CTCSS / CDCSS
- Selectable Squelch Level
- Wired Clone
- Flash Technology
- Clock Frequency Shift



Photo courtesy of powerflare.com



### Synthesized channel frequency generation

Provides up to 128 semi-duplex channels for any application, from simple to sophisticated.

### Wide/narrow channel bandwidth switching

25 kHz/12.5 kHz channel spacing is software controlled and programmed independently for each channel.

### Wideband design

Provides coverage across the most common VHF & UHF bands.

VHF: 136 ~ 174 MHz UHF: 430 MHz ~ 470 MHz and 450 MHz ~ 512 Mhz.

### Advanced design RF power modules

Provides an economic choice between low and high power models.

Power output: **RMV50**:50 Watts **RMV25**:25 Watts **RMU45**:45 Watts **RMU25**:25 Watts

**"Mobile data-ready"** The RMV/RMU mobiles have a connection port specifically designed for system integrators who need to provide voice and/or data communications using PC/modems, MDT's and digital messaging equipment.

### Large, easy-to-read LCD display

Renders clear legibility under any lighting conditions. Channel and operating status information are shown using large, easy-to understand indicators.

### "Installation-ready" ultra-compact and lightweight design

Compact 5.5-inch width and 2.2 lbs weight each mobile package includes an adjustable mounting bracket and a durable compact microphone.

## Specifications

General	RMV	RMU
Frequency Range	136-174MHz (M)	430-470MHz (H) 450-512MHz
Channel capacity	128	
Channel spacing	25KHz / 12.5KHz	
Power supply	13.6 VDC	
Antenna impedance	50 Ohms	
Operating temperature	-30C to 60C	
PLL step	2.5kHz / 6.25kHz	
Dimensions (25W)	164(W)X44(H)X110(D)	
Dimensions (45/50W)	164(W)X44(H)X162(D)	
Weight(Net)	<1000g	

### MIL-SPEC 810C/D/E

Specification are tested according to TIA/EIA - 603  
Specifications are subject to change without notice.

Transmitter	RMV	RMU
Carrier output power	25/5W 50/10W	25/5W 45/10W
Spurious and harmonics	-36dBm(<1GHz) -30dBm(>1GHz)	
Audio distortion (300-3000Hz)	<3% typical (1kHz / 40% dev.)	
Frequency stability (-30Cto+55C)	2.5 ppm	
Max. Frequency deviation	±5KHz (wide) / ±2.5KHz (narrow)	
Adjacent channel power	>-70dBc (wide) / >-60dBc (narrow)	
FM Modulation	16K0F3E / 8K0F3E	

Receiver	
Sensitivity(12dB/20dB SINAD)	0.25µV
Adjacent channel selectivity	70dB (W) / 65dB (N)
Intermodulation rejection	70dB (W) / 65dB (N)
Spurious response rejection	70dB (W) / 65dB (N)
Audio power output	Int. 4W / Ext. 8W
Audio distortion	</= 5%

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GS06T03BND7002



RM web sheet Jan. 2005

For a copy of the complete RM Series datasheet

Contact RELM/BK at (800) 821-2900

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www.relm.com