



## FEATURES & BENEFITS:

- Bridge voice between two radios
- Monitor up to two different radios
- Select individual radios for use
- Robust design
- Voice Activity Detection (VAD)
- Automatic Gain Control (AGC)
- Built-in Speaker

## RADIO VOICE BRIDGE

The **RapidM RV2** is a purpose-built unit which interfaces to 2 different radios simultaneously. It provides the operator with a Handset/Headset interface from where the received audio from both radios can be monitored.

The operator can select the individual radio to which he wants to talk while still being able to see activity on the other radios via an LED indication.

The operator can also select to cross-connect the audio from Radio 1 to Radio 2 and visa-versa to form a bridge between separate radio networks. In this scenario, the operator can still monitor and speak onto both radio networks.

Voice activity is continually being detected on all the radios and radio levels are automatically adjusted and normalised via the automatic gain control. The user can adjust the handset and built-in speaker volume as desired.

## SELECTOR SWITCH

The following modes are available on the **RV2** selector switch:

- OFF Unit is powered down
- L1 Adjust audio output level to Radio 1
- L2 Adjust audio output level to Radio 2
- R1-R2 Radio 1 & Radio 2 Bridged. Receive and Transmit to Radio 1 & 2
- R1 Receive and Transmit to Radio 1. (No bridging). Monitor Radio 2.
- R2 Receive and Transmit to Radio 2. (No bridging). Monitor Radio 1.

## LED INDICATION

Light Emitting Diodes on the **RV2** unit indicates to the operator receive and transmit audio activity on any of the connected radios.

## VOLUME CONTROL

The **RV2** provides Volume control that adjusts both the Handset/Headset as well as the internal speaker volume. When in the L1 or L2 selector setting, the Volume control adjusts the audio output level to Radio 1 and Radio 2 respectively.

## POWER

The **RV2** Unit is powered by any of the radios that it connects to. The Power LED will flash when power is connected to the device.

## BUILT-IN SPEAKER

The **RV2** units are fitted with internal waterproof speakers to alert operators of incoming calls or radio activity. This provides a convenient way to monitor multiple radios from a distance.

## RADIO VOICE BRIDGE PACKAGE

The RV2 package includes:

- 1x RV2 Unit
- 1x H-250 type headset
- 1x RV2 User Manual

## RV2 ACCESSORIES

**Radio Cable:** Contact us for appropriate cables to support your radio models.

**Accessories:** Please contact us for additional accessory information such as shock-mount options.



RV2 HARDWARE		RV2 ENVIRONMENTAL	
SIZE & WEIGHT	165 x 96 x 37 mm (w x d x h) 800 g	TEMPERATURE	Operating: -40°C to +60°C Storage: -55°C to +85°C
COLOUR	Signal Black	IMMERSION	MIL-STD-810F Method 512.4 Proc 1, 30 min at 1m
EMC / EMI / ESD	MIL-STD-461, IEC 61000-4-2	ENVIRONMENTAL	MIL-STD-810F Humidity, Shock, Vibration, Dust
RV2 INTERFACES			
HANDSET (U-183) (J1)	(D) MIC: 1 kΩ Coil or Electrostatic with Bias, (B) PHONES: 300 Ω - 1,000 Ω (9Vp-p), (C) PTT (<10 Ohm), (A) GND, (E) SW update RS232-RX, (F) SW update RS232-TX		
2x RADIO (P17N) (J2 & J3)	Audio: (D) AUD_TX (max 4.1dBm / 3.5Vp-p into 600Ω, 1.4Vp-p into 150 Ω adjustable via radio Level setting L1 & L2), (B) AUD_RX 600Ω (300mVp-p to 4.1Vp-p), (H) AUD_COM RX & TX Return, (C) PTT (open collector, <10 Ohm), (A) GND Power: (G) Input to RV2, 6 – 36 VDC Vehicle Power & polarity protection. Consumption < 2.8W		
VOLUME	11 position volume control		
SELECTOR	Mode selector switch: OFF, L1, L2, R1-R2, R1, R2		
STATUS LEDs	Power indication, RADIO 1, RADIO 2 connection and activity indication		
SPEAKER	2x 4 Watt 8 Ohm internal waterproof		

ORDERING INFORMATION	STOCK NUMBER	DESCRIPTION
RADIO VOICE BRIDGE 2-RADIO V1	RV2-TU-2RSP-V01	RV2: Voice Bridge 2Rad Spkr H250 V01

### USA DISTRIBUTION BY:

Cyntony Corporation  
195 Follen Road  
Lexington, Massachusetts  
sales@cyntony.com  
781-430-0675



Rapid Mobile Pty (Ltd)  
Tel: +27 12 349 0000  
Fax: +27 12 349 0010  
Email: info@rapidm.com  
Web: www.rapidm.com

Apex Corporate Park  
Quintin Brand Street  
Persequor Park  
Pretoria, South Africa  
0020



Copyright © 2023 Rapid Mobile (Pty) Ltd  
Revision: RV2\_RM\_EN\_01G