

## RDR5200 Mobile Radio Series



RDR5200



Optional  
MM301HDK  
Keypad  
Microphone

## Professional Two-Way Radios

### Guaranteed compatibility with all major brands.

The RCA PRODIGI™ RDR5200 Series mobile is a reliable, cost-efficient two-way radio communication solution for your everyday drivers to collaborate effectively and reliably with the rest of your team. Whether they're operating a forklift, cargo truck, earthmoving equipment, or simply driving a school bus the RDR5200 mobile is easy to use and delivers clear and loud voice communication. It operates in both DMR digital and analog modes and with its versatility the RDR5200 can be used in a wide range of industries such as K12 Education, Colleges and Universities, Manufacturing, Logistics, Construction, Landfills and more. When affordability, safety and reliability are critical, the RDR5200 is the clear choice for your in-vehicle communication needs..

- ① **1,000 Channels / 250 Zones** Plenty of choices for specific assignments.
- ② **Volume Knob and Programmable Button** Push the volume knob to access the Features Menu.
- ③ **LED Indicator** Identifies radio's receiving/transmitting/scanning status.
- ④ **Loud Audio** Clear, crisp audio. Optional external speaker available.
- ⑤ **Up to 7 Programmable Buttons** Your favorite features at your fingertips.
- ⑥ **Standard Speaker Microphone** Optional Keypad Speaker Microphone (MM301HDK) enables you to send text messages and manage contacts.

### Features:

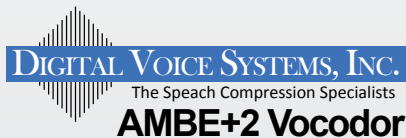
**ADVANCED MULTI-MODE FUNCTIONALITY** With different operating modes — Conventional Analog, Conventional Digital DMR Tier II, Digital DMR based PRODIGI™ Plus, the mobile will truly meet even the most demanding in-vehicle communication needs. The RCA RDR5200 mobile is designed to connect your workforce efficiently and provide reliable communication allowing your workers to focus on the job.

**CROSS-BRAND COMPATIBILITY** Utilizing the DMR Digital technology according to the ETSI TS 102 361-1,-2,-3 Standards the RDR5200 mobile is compatible with all RCA two-way radios as well as all other major brands, including digital equipment, such as Motorola, Kenwood, Hytera and Vertex series digital two-way radios and repeaters.

**IMPROVED VOICE COMMUNICATION** The RDR5200 mobile utilizes the DMR digital technology allowing for the transmissions to stay clear from background noise regardless of the distance between two radio units, providing virtually no deterioration of the voice quality, thus increasing the usable coverage area where analog communication will be very poor or not possible at all.

**SAFETY FIRST** Communicate without distractions! Unlike mobile phones, Professional Land Mobile two-way radios are not restricted by the Department of Transportation (DOT) for use by commercial motor vehicle drivers.

**POWER IS PERFORMANCE** Designed to output 45 or 50 Watts of Power respectively in the UHF or VHF providing optimal communication range. The RDR5200 comes standard with a powerful 7 Watt Internal Speaker and available optional 5 Watt or 10 Watt external speakers providing easy to hear voice transmissions even in loud environments.



**FEATURE RICH AND VERSATILE** The RDR5200 mobile equipped with 16 character display and 7 programmable function buttons and a simple to use user interface allowing your workers to take advantage of advanced features such as Caller ID, Group and Private Call, Radio Check, Radio Monitor, Radio Enable/Disable, Emergency, Lone Worker Alerts, Pre-saved Status Messaging, Text Messaging with optional full keypad palm mic, Encryption and more.

### RDR5200 Specifications

GENERAL	
<b>Frequency Bands</b>	136 - 174 MHz (VHF "V") 400 - 470 MHz (UHF "U")
<b>Dimensions</b>	1.8" X 6.3" X 6.9" (46 x 160 x 175mm)
<b>Weight</b>	2.9 lbs / 1,315 g
<b>Power Supply</b>	13.6V DC +/-20%
<b>Channels</b>	1,024
<b>Zones</b>	250
<b>Channels/Zone Allocation</b>	Flexible
<b>Current Drain Standby:</b> <b>Receive:</b> <b>Transmit:</b>	185mA 550mA @ max. Volume 10A @ max. Power
<b>Environmental Protection and Standards</b>	Designed to meet:  IP54 / MIL-STD-810 C,D,E,F,G
<b>Operating Temperature</b>	-22°F (-30°C) / 140°F (60°C)
<b>Storage Temperature</b>	-40°F (-40°C) / 185°F (85°C)
<b>Digital Protocol</b>	DMR (ETSI TS 102 361-1,-2,-3)

\*25 kHz is not available in the U.S. for Part 90 operation due to the FCC's narrowbanding requirements.  
Radio is designed to meet IP54 and MIL-STD ratings with microphone sealing boot and rear accessory connector covers properly installed.  
Specifications are subject to change without notice.

**LEGACY ANALOG SIGNALLING** 2-Tone, 5-Tone, DTMF and MDC1200 Encode/Decode providing a variety of features such as PTT ID, Individual/Group Call , Call Alert, Alarm and more.

**INDUSTRY LEADING WARRANTY** The RCA RDR5200 series mobiles are backed standard by an industry leading, hassle-free Three (3) Year Warranty.

TRANSMITTER SPECIFICATION	
<b>Power Output</b>	5W, 25W, 45W (UHF) / 50W (VHF)
<b>Frequency Stability</b>	± 1 ppm
<b>Channel Spacing</b>	12.5 kHz / 25 kHz*
<b>Audio Response</b>	+1 dB / -3 dB @ 300 to 3,000 Hz
<b>FM Hum and Noise</b>	-40dB (12.5KHz)
<b>Conducted/Radiated Emission</b>	-36dBm@<1GHz, -30dBm@>1GHz
<b>Adjacent Channel Power</b>	-60dB
<b>FM Modulation</b>	12.5KHz: 11K0F3E 25KHz: 16K0F3E
<b>4FSK Digital Modulation</b>	12.5KHz Data: 7K60F1D 12.5KHz Voice: 7K60F1E
<b>4FSK Modulation Accuracy</b>	5% @ 77°F, 10% @ max. Operating Temperature
RECEIVER SPECIFICATION	
<b>Analog Sensitivity (12dB SINAD)</b>	0.22µV/-120dBm 0.17µV/-122dBm (typical)
<b>Digital Sensitivity (BER 5%)</b>	0.28µV/-118dBm 0.2µV/-121dBm (typical)
<b>Selectivity</b>	60 dB (12.5kHz); 70 dB (20/25 kHz)
<b>Adjacent Channel Selectivity</b>	TIA603C: 60dB ETSI: 60dB
<b>Spurious Rejection</b>	TIA603C: 75dB; ETSI: 70dB
<b>Co-channel rejection</b>	-8dB@12.5KHz
<b>Blocking</b>	84dB
<b>Rated Audio Output Power</b>	3.5W @ 8 Ohms (5W Internal Speaker)
<b>Rated Audio Distortion</b>	3%
<b>Intermodulation</b>	65 dB
<b>Audio Response</b>	+1 dB to -3 dB @ 300 to 3000 Hz
<b>Conducted Spurious Emission</b>	-57 dBm <1GHz, -47 dBm >1GHz ETS300 086

**Authorized Distributor:**



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