RCA Communications Systems | **prodigi**™
PROFESSIONAL DIGITAL RADIO PRODUCTS

RDR2000 SERIES

RDR2500   RDR2550   RDR2600

SelecTalk™
PRIVATE AND GROUP CALLING

ENHANCED EMERGENCY & SAFETY FEATURES

3 YEAR WARRANTY PROTECTION PROGRAM

DMR DIGITAL MOBILE RADIO ASSOCIATION

X Sound HD Enhanced Audio Clarity™

PRODIGI™, the Intelligent Choice for Digital Two-Way Communication

Simple and Reliable Digital Two-Way Communication The RDR2000 series is the newest addition to the PRODIGI™ line of Professional DMR Digital Radios. Simple and cost-effective, the RCA digital radios are designed to connect your workforce efficiently and provide you with reliable communication allowing you to focus on growing your business.

Cross-Band Compatibility Designed strictly according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR2000 Series portable radios are compatible with all RCA two-way radios as well as all other major brands, including digital equipment, such as the Motorola MotoTrbo™ and Vertex eVerge™ series two-way radios and repeaters.

Upgrade To Digital At Your Own Speed Analog and Digital operation will give you the flexibility to upgrade to Digital at your own speed, without sacrificing safety and keeping your business operations running smoothly during the transition period.

Reliability, Safety, and Productivity First The RDR2000 series provides a reliable, cost-effective communication solution with a simple, user-friendly operation that will help your employees connect, collaborate and coordinate in real time to get their job done safely and more efficiently.

Full Shift Performance Designed to be power efficient. When working in digital mode, the battery power consumption is lowered up to 40%, providing longer operating time which ensures that your employees will stay connected beyond a full working shift. The standard 1800mAh Lithium Ion battery provides up to 10 hours of operation in Analog mode and up to 14 hours of operation in Digital mode.

True Operational Versatility The RDR2000 serias radios come in three different models, the standard no display RDR2500 unit; the upgraded RDR2550 equipped with 16 character display and industry leading 7 programmable function buttons and the advanced RDR2600 unit equipped with 16 character display and full keypad. Different departments, work crews, managers and employees can choose to use the best model for their needs, taking advantage of advanced features such as Caller ID, Group and Private Call, Radio Check, Radio Enable/Disable, Emergency and Lone Worker Alerts, Text Messaging and many more.

Crystal Clear Audio Quality, Improved Coverage Designed with X-Sound+ HD™ for exceptional voice quality. The RDR2000 series radios provide loud 1 Watt of power audio, at the same time eliminating background noise and static from the voice transmissions and delivering crystal clear voice message which results in a better, improved radio coverage.

Industry Leading Warranty The RDR2000 series radios are backed by an industry leading, hassle-free, Three (3) Year Warranty.

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Features and Options

- 4 Programmable Keys (RDR2500 / RDR2600)
- 9 Programmable Keys (RDR2550)
- Limited Keypad (RDR2500)
- Full Keypad (RDR2600)
- 16-Character Alphanumeric Display (RDR2600)
- LED Indicator
- Voice Channel Announce (RDR2500)
- RSSI Indicator (RDR2550 / RDR2600)
- Battery Level Indicator
- CTCSS/DCS Encode/Decode
- DTMF Encode
- DTMF Encode / Decode (RDR2550* / RDR2600)
- VOX - Voice Activated Transmission
- Scan
- Channel Activity Monitor
- Alert Tones On/Off
- RPT / Talkaround
- Meets IP Standard IP54
- Meets MIL-STD 810 C,D,E,F,G

Digital Mode Specific Features

- Contact List for Up to 1,000 Records (RDR2550 / RDR2600)
- All Call, Group Call, Private Call (RDR2550 / RDR2600)
- Manual Private Call Dial (RDR2600)
- PTT ID Encode (RDR2500)
- PTT ID Encode/Decode (RDR2550 / RDR2600)
- Privacy Voice Encryption
- Radio Check
- Radio Kill / Active
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Pre-Saved (Quick)Text Messaging
- Free Text Messaging (RDR2600)
- Mixed Mode (Analog / Digital) Scan
- Priority Scan
- One Touch Access
- Keypad Lock (RDR2600)

RDR2500 / RDR2550 / RDR2600 SPECIFICATIONS

GENERAL SPECIFICATIONS		
Model	RDR2500™ / RDR2550™ / RDR2600™	
Channel Numbers	32 / 1000 / 1000	
Channel Spacing	Digital:12.5KHz / Analog:12.5Khz/25KHz	
Working Voltage	DC 7.4V	
Frequency	VHF: 136-174MHz / UHF: 400-470Mhz UHF: 450-500Mhz	
Operating Temperature	(-20°C)~+50°C / (-4°F)~+122°F	
Storage Temperature	(-40°C)~+80°C / (-40°F)~+176°F	
Weight	318g / 0.7 lb. (with battery B2618LI)	
Size: HxWxD (inches)	5.3" x 2.3" x 1.3" (without antenna)	
Waterproof Level	IP54 Dust and Water Resistant	
Battery	Supplied	7.4V 1800mAh Lithium-Ion Battery; 13.32 Wh
	Upgrade	7.4V 2300mAh Lithium-Ion Battery; 17.02 Wh

RECEIVER	
Frequency Stability	± 0.5 ppm
Anaglog Sensitivity	0.22μV / -120dBm (12dB SINAD)
Digital Sensitivity	0.2uV/-121dBm (BER 5%)
Intermodulation	60dB
Adjacent Channel Selectivity	65dB@12.5KHz
Co-Channel Rejection	12dB@12.5KHz
Spurious Response Rejection	70dB
Receive Spurious Radiation	-57dBm@<1GHz, -47dBm@>1GHz
Block	84dB
Rated Audio Power	1W @16 Ohms
Rated Audio Distortion	≤3%

TRANSMITTER	
Transmit Power	5W
FM Noise	40dB@12.5KHz
Intermodulation	60dB
Transmit Spurious Radiation	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5KHz
Modulation Limit	2.5KHz@12.5KHz
Idle Slot Power	-57dBm
Audio Response	+1dB---(-3)dB
Rated Audio Distortion	≤3%
FSK Error	≤3%
Emisson Designator (Analog)	16K0F3E / 11K0F3E
4FSK Digital Modulation	12.5KHz Data: 7K60F1D & 7K60FXD
	12.5KHz Voice: 7K60F1E & 7K60FXE
	Combination of 12.5 kHz Voice and Data: 7K60F1W

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