RCA Communications Systems | prodigi™
PROFESSIONAL DIGITAL RADIO PRODUCTS

RDR26x0 SERIES

RDR2620   RDR2650   RDR2680

SELECTALK™
PRIVATE AND GROUP CALLING

ENHANCED EMERGENCY & SAFETY FEATURES

3 YEAR WARRANTY PROTECTION PROGRAM

X-Sound+HD
Enhanced Audio Clarity ™

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

SIMPLE AND RELIABLE Part of the PRODIGI™ line of Professional DMR Digital Radios the RDR26x0 Series are simple to use and cost-effective digital radios, 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 RDR26x0 Series portable radios are compatible with all RCA two-way radios as well as all other major brands.

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 RDR26x0 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. 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, Two Slot Direct Mode Operation and many more.

VERSATILE DESIGN To meet a wide range of user needs, the RDR26x0 series radios come in three different models, the standard none-display RDR2620 unit; the upgraded RDR2650 equipped with 16 character display and 7 programmable function buttons and the advanced RDR2680 unit equipped with 16 character display and full keypad.

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 supplied 1800mAh Lithium Ion battery provides up to 10 hours of operation in Analog mode and up to 14 hours of operation in Digital mode.

CLEAR AUDIO AND IMPROVED COVERAGE Designed with X-Sound+ HD™ for exceptional voice quality. The RDR26x0 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 RDR2620, RDR2650 and RDR2680 portable radios are backed by our industry leading, hassle-free, Three (3) Year Radio Warranty and One (1) Year Accessory Warranty.

ASSEMBLED IN THE U.S.A. The RDR26x0 series portable radios are proudly assembled in our facility in the U.S.A.

Features & Options

- 4 Programmable Keys (RDR2620 /RDR2680)
- 9 Programmable Keys (RDR2650)
- Limited Keypad (RDR2650)
- Full Keypad (RDR2680)
- 16-Character Alphanumeric Display
- (RDR2650 / RDR2680)
- LED Indicator
- Voice Channel Announce (RDR2620)
- RSSI Indicator (RDR2650 / RDR2680)
- Battery Level Indicator
- CTCSS/DCS Encode/Decode
- DTMF Encode / Decode (RDR2650 / RDR2680)
- Channel Scan
- Mixed Mode (Analog / Digital) Scan
- Priority Channel Scan
- Channel Activity Monitor
- Voice Channel Announce (RDR2620)
- Alert Tones On/Off
- RPT / Talkaround
- IP54 Design
- Designed to meet MIL-STD 810 C-G

Digital Mode Specific Features

- Contact List for Up to 1,000 Records
- All Call, Group Call, Private Call
- Manual Private Call Dial (RDR2680)
- PTT ID Encode (RDR2620)
- PTT ID Encode/Decode (RDR2650 / RDR2680)
- Call Alert
- Radio Check
- Radio Enable / Disable
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Basic Digital Encryption
- Advanced Digital Encryption
- Two Slot Direct Mode Operation (DMO)
- Pre-Saved (Quick) Text Messaging
- Free Text Messaging (RDR2680)
- One Touch Access Functionality
- Keypad Lock (RDR2680)

RDR2500 / RDR2550 SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	RDR2620 / RDR2650 / RDR2680
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
Operating Temperature	-4°F~+140°F (-20°C~+60°C)
Storage Temperature	-40°F~+122°F (-40°C~+50°C)
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
Battery / Upgrade	7.4V 2250mAh Lithium-Ion Battery; 16.65 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	6K0F3E, 6K40F3E, 6K56F3E, 6K72F3E, 7K52F3E, 12K5F3E
Emisson Designator	4FSK Digital	5K6F1D/F1W, 7K52F1D, 7K68F1D/F1W/F7W, 7K84F1D/F1W/F7W / 8K00F7W / 8K32F7W, 8K96F1D/F1W, 12K5F1D/F1W
FCC Information	UHF	XYH-RDR2500UX, XYH-RDR2600UX
FCC Information	VHF	XYH-RDR2500VX, XYH-RDR2600VX

For Sales, Warranty and Customer Support please contact:

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