



RCA
Communications Systems

prodigi™ SERIES

PROFESSIONAL DIGITAL RADIO PRODUCTS



RDR2620
RDR2650
RDR2680



**The Intelligent Choice for Digital
Two-Way Radio Communication**



VERSATILE & AFFORDABLE!

prodigi™
PROFESSIONAL DIGITAL RADIO PRODUCTS

The RCA PRODIGI™ RDR26x0 Radio Series The RDR26x0 series portable radios are proudly assembled, tuned, tested and programmed in the U.S.A. With its durable and reliable design the RDR2620, RDR2650 and RDR2680 radios are perfect for any organization needing fast, reliable communication throughout their facility, making them an ideal choice for a wide range of industries such as manufacturing, warehousing, churches, hotels, schools, colleges and more.

RDR2620 / RDR2650 / RDR2680 FEATURES

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.



RDR2620



RDR2650



RDR2680



RDR2620 / RDR2650 / RDR2680 SPECIFICATIONS

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,D,E,F,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)

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
	Upgrade	7.4V 2250mAh Lithium-Ion Battery; 16.65 Wh

RECEIVER

Frequency Stability	± 0.5 ppm
Analog 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%
Emission Designator	Analog	6K0F3E, 6K40F3E, 6K56F3E, 6K72F3E, 7K52F3E, 12K5F3E
	4FSK	5K6F1D/F1W, 7K52F1D, 7K68F1D/F1W/F7W, 7K84F1D/F1W/F7W
	Digital	/ 8K00F7W / 8K32F7W, 8K96F1D/F1W, 12K5F1D/F1W
FCC Information	UHF	XYH-RDR2500UX, XYH-RDR2600UX
	VHF	XYH-RDR2500VX, XYH-RDR2600VX

ACCESSORIES & OPTIONS



**Medium Duty
Speaker Mic**
SM220-X03S



**Heavy Duty
Speaker Mic**
SM310-X03S



**One-Wire
Surveillance Kit
D-Loop Style**
SK12DL-X03S



**One-Wire Surveillance Kit
Ear Hook Style**
SK12EH-X03S



**One-Wire
Surveillance Kit
In-Ear Style**
SK12NE-X03S



**Two-Wire
Surveillance Kit
In-Ear Style**
SK22NE-X03S



**Light Duty Behind the
Head Headset**
HS12-X03S



**Heavy Duty Behind the
Head Headset**
HS65NR-X03S, HS75NR-X03S



Nylon Holsters
For RDR2620 /
RDR2650 / RDR2680



Leather Holsters
For RDR2620 /
RDR2650 / RDR2680



High Capacity Battery
B2623LI
Lithium-Ion
7.4V 2250mAh 16.65 Wh



6 Bank Charger
CHU6 - RDR2500 cup



www.rcacommunicationssystemss.com
products@rcacommunicationssystemss.com
(877) 822-2915

Communications Systems Created and Printed in U.S.A.

For Sales, Warranty and Customer Support please contact:

Discount Two-Way Radio Corp., U.S.A.

555 W. Victoria St., Rancho Dominguez, CA 90220

Toll Free: (800) 895-5122 | Fax: (877) 291-9565

info@dtwr.com / www.dtwr.com