







YEAR WARRANTY PROTECTION PROGRAM

RDR2500 UHF / VHF RDR2550 UHF / VHF RDR2580 UHF / VHF

The Intelligent Choice for Digital Two-Way Communication



VERSATILE & AFFORDABLE!



The RCA PRODIGI[™] Radio Series is compatible with other DMR Digital radios on the market. Operational in both digital and analog modes, the PRODIGI[™] Series delivers crystal clear, dependable communication. RDR2500, RDR2550 and RDR2580 are designed to be used in a wide range of applications. Industries such as manufacturing, warehousing, construction, security, hotels and schools all benefit from its basic push to talk functionality and advanced emergency features.

RDR2500 / RDR2550 / RDR2580 FEATURES

Simple and Reliable Digital Two-Way Communication

The RDR25x0 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 focus on growing your business.

Cross-Band Compatibility Designed strictly according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR25x0 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 RDR25x0 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 with RDR2500 provides up to 10 hours of operation in Analog mode and up to 14 hours of operation in Digital mode.

True Operational Versatility The RDR25x0 series 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 RDR2580 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, Direct Mode Operation (DMO) and many more.

Crystal Clear Audio Quality, Improved Coverage Designed with X-Sound+ HD[™] for exceptional voice quality. The RDR25x0 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 RDR25x0 series radios are backed by an industry leading, hassle-free, Two (2) Year Warranty.





RDR2500 / RDR2550 / RDR2580 SPECIFICATIONS

Features & Options

- 4 Programmable Keys (RDR2500/RDR2580)
- 7 Programmable Keys (RDR2550)
- Limited Keypad (RDR2550)
- Full Keypad (RDR2580)
- 16-Character Alphanumeric Display (RDR2550/ RDR2580)
- LED Indicator
- Voice Channel Announciation (RDR2500)
- RSSI Indicator (RDR2550 / RDR2580)
- Battery Level Indicator (RDR2550/RDR2580)
- CTCSS/DCS Encode/Decode
- DTMF Encode (RDR2500)
- DTMF Encode / Decode (RDR2550/RDR2580)
- Mixed Mode (Analog / Digital) Scan
- Priority Scan
- Channel Activity Monitor
- Alert Tones On/Off Option
- 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 (RDR2550 / RDR2580)
- All Call, Group Call, Private Call (RDR2550/RDR2580)
- Manual Private Call Dial (RDR2580)
- PTT ID Encode (RDR2500)
- PTT ID Encode/Decode (RDR2550/RDR2580)
- Basic Encryption
- DMRA ARC4 Encryption*
- Radio Check
- Radio Enable/Disable
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Direct Mode Operation (DMO)
- Pre-Saved (Quick)Text Messaging
- Free Text Messaging (RDR2580)
- One Touch Access
- Keypad Lock (RDR2580)

* Optional Features

GENERAL SPECIFICATIONS				
Model		RDR2500 / RDR2550 / RDR2580		
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		(-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 B2518LI)		
Size: HxWxD (inches)		5.3" x 2.3" x 1.3" (without antenna)		
Environmental Protection and Standards		IP54 Design MIL-STD-810 C,D,E,F,G Standard		
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) (typical)	
Digital Sensitivity	0.20uV/-121dBm (BER 5%) (typical)	
Intermodulation	>60dB	
Adjacent Channel Selectivity	65dB@12.5KHz	
Co-Channel Rejection	12dB@12.5KHz	
Spurious Rejection	>70dB	
Receive Spurious Radiation	-57dBm@<1GHz, -47dBm@>1GHz	
Blocking	84dB	
Rated Audio Power	1W @16 Ohms (Internal)	
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%	
Fusiesen	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	

ACCESSORIES & OPTIONS



Medium Duty Speaker Mic SM220-X03S



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



Heavy Duty Speaker Mic SM310-X03S



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



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



One-Wire Surveillance Kit Ear Hook Style SK12EH-X03S



Light Duty Behind the Head Headset HS12V-X03S



Heavy Duty Headsets HS65NR-X03S (Over-The-Head) HS65NRHH-X03S (Hard Hat) HS75NR-X03S (Behind-The-Head)



Nylon Holsters For RDR2500 / RDR2550 / RDR2580



Leather Holsters For RDR2500 / RDR2550 / RDR2580



Battery Upgrade B2523LI Lithium-Ion 7.4V 2300mAh 17.02 Wh



6 Bank Charger CH2506

Authorized Distributor:



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

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