



# PROFESSIONAL DIGITAL RADIO PRODUCTS SERIES





RDR4320 UHF / VHF RDR4350 UHF / VHF RDR4380 UHF / VHF

The Intelligent Choice for Digital Two-Way Radio 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™ Radio Series delivers crystal clear, dependable communication. RDR4320, RDR4350 and RDR4380 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.

## RDR4320 / RDR4350 / RDR4380 FEATURES

ADVANCED MULTI-MODE OPERATION With different modes available, Conventional Analog, Conventional Digital DMR Tier II, Trunked Digital DMR Tier III, Prodigi Plus™, MPT 1327 the RDR43x0 series portable radios will truly meet even the most demanding communication needs, delivering fast and reliable communication for a safer and more productive work environment.

CROSS-BRAND COMPATIBILITY Designed according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR43x0 series portables are compatible with all RCA two-way radios as well as all other major brands, including digital equipment, such as Motorola, Hytera and Vertex series digital two-way radios and repeaters.

**TOUGH AND RELIABLE PORTABLES** The RDR43x0 series portables are designed and built with the most demanding conditions in mind. Your team needs radios that will not fail them, regardless of the working environment. The newest portables in the RCA ProdigiTM product line meet Military Specs 810C, D, E, F, and G and are IP67 rated, fully submersible and dustproof units.

TRUE OPERATIONAL VERSATILITY The RDR43x0 series portables come in 3 different models, the standard RDR4320 unit; the upgraded RDR4350 with large, color display and 11 programmable function keys; the advanced RDR4380 unit with large, color display, full keypad and industry leading 23 programmable function keys. Businesses, Departments and Government Agencies can choose the best model for their needs, taking advantage of advanced features such as Caller ID, Group and Private Call, Radio Check, Radio Monitor, Radio Enable/Disable, Emergency, Man Down, Lone Worker Alerts, Text Messaging, Pre-Saved Status Messaging, GPS Tracking and more.

**IMPROVED COMMUNICATION RANGE** Today's digital technology allows for the transmitted signal to stay clear from background noise regardless of the distance between two radio units, providing virtually no deterioration of the voice quality, thus expanding the usable coverage in areas where analog communication will be very poor or not possible at all.

**FULL SHIFT PERFORMANCE** The RCA Prodigi<sup>™</sup> RDR43x0 series portables provide up to 40% improved battery performance in digital mode over analog, allowing for longer operating time on a single battery charge. With a typical duty cycle of 5 (Rx) - 5 (Tx) - 90 (Stand By), the RDR4320 with

2250mAh Lithium Ion battery can provide up to 12 hours of operation in Analog mode and up to 16 hours of operation in Digital mode. For extended operating time a higher capacity 3500mAh battery is also available.

CRYSTAL CLEAR AUDIO Designed with X-Sound+HD™ for exceptional voice quality. The RDR43x0 series portables provide loud 1 Watt of audio power, eliminating background noise and static even from analog voice transmissions and delivering crystal clear voice message.

ADVANCED ENCRYPTION OPTIONS Secure communications are essential. The RDR43x0 series portables meet today's demand for safe and private voice and data transmissions by providing flexibility to it's users to choose from multiple advanced options. The radios are equipped standard with ARC4 type encryption and available 40-bit, 128-bit or 256-bit advanced encryption options.

**AVAILABLE INTEGRATED GPS** Location tracking service is available as a built-in functionality. The tracking of your asset's location enables real-time visibility of field operations, resulting in improved worker safety, increased productivity and shortened incident response time.

**AUTOMATIC ROAMING** Dramatically improves communication and productivity by allowing for seamless roaming from one repeater site to another and eliminating the need for users to physically change channels on the radios as they travel through the different coverage zones of the repeater system.

**INDUSTRY LEADING WARRANTY** The RDR43x0 series portables are backed standard by an industry leading, hassle-free Three (3) Year Warranty.



RDR4320



RDR4350



RDR4380



# RDR4320 / RDR4350 / RDR4380 SPECIFICATIONS

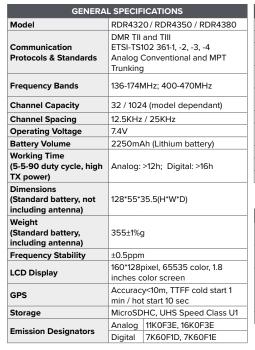
#### **Features and Options**

- DMR TII Conventional and TIII Single\* and Multi-Site Trunking\* Modes
- Prodigi Plus<sup>™</sup> Mode
- Analog Conventional and MPT Trunking Modes\*
- 5 Watts VHF and UHF
- · Group and Private Calling
- · Text Messaging
- Scanning & Priority Scanning
- Roaming\*
- GPS\* Location Reporting









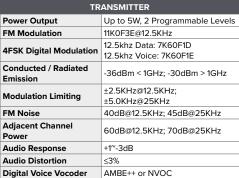
- X-Sound+HD Enhanced Audio Clarity
- · Large Color Display
- Up to 23 Programmable Function Keys (model dependant)

EMERGENCY & SAFETY

- IP67 Design
- MIL-STD 810C, D, E, F, G
- · 3 Year Warranty







ENVIRONMENTAL SPECIFICATIONS		
Operation temperature/ Storage temperature	-30°C"+60°C / -40°C"+85°C	
ESD	IEC 61000-4-2 (level 4); ±8KV(contact); ±15KV(air)	
Environment Test Standard (Temperature & Fall & Vibration)	MIL-STD-810 C / D / E / F / G	
IP Rating	IP67	

#### **Emergency / Security Features**

- · Radio Check
- · Remote Radio Monitor
- · Radio Kill / Active
- Advanced Digital Encryption
   Options\* (ARC4, Prodigi Advanced Encryption)
- · Call Alert
- · Emergency Alerts
- Man Down Alert
- · Lone Worker Alert

#### \* Optional Features

RECEIVER		
Sensitivity	Analog	0.3μV(12dB SINAD): 0.22μV(Typical value) (12dB SINAD)
		0.4μV(20dB SINAD)
	Digital	0.3μV / BER5%
Sensitivity TIA-603 / ETSI	60dB@12.5KHz / 70dB@25KHz	
Intermodulation	TIA- 603	70dB@12.5 / 25 KHz
	ETSI	65dB@12.5 / 25 KHz
Spurious Response Rejection TIA-603 / ETSI	70dB@12.5 / 25 KHz	
Blocking	TIA- 603	80dB
	ETSI	84dB
Hum and Noise	40dB@12.5KHz; 45dB@25KHz;	
Rated Audio Power Output	1.0W	
Rated Audio Distortion	≤3%	
Audio Response	+1~-3dB	
Conducted Spurious Emission	<-57dBm	

GPS The accuracy standard is applicable for long time tracking. (95% value>under rated -130dBm signal strength, there are 5 visible satellites)		
TTFF cold start	< 1 min	
TTFF hot start	< 10 sec	
Horizontal location accuracy	< 10 m	

Disclaimer: The above specifications comply with standard tests accordingly, and due to continuous technical development, they are subject to changes without prior notice.

# **ACCESSORIES & OPTIONS**

# RDR4320 / RDR4350 / RDR4380 ACCESSORIES



Medium Duty Speaker Mic SM223IS-X93



Heavy Duty Speaker Mic SM318-X93



Waterproof Speaker Mic SM311WP-X93



Surveillance Kit SK24NE-X93



**3" Stubby Antenna** ANH4300-S VHF/UHF



**6" Antenna** ANH4300-W VHF/UHF



Standard Battery
B4323LI
Lithium-Ion
7.4V 2250mAh 16.65 Wh



Battery Upgrade

B4335LI
Lithium-lon
7.4V 3500mAh 25.9 Wh



Nylon Holsters For RDR4320 / RDR4350 / RDR4380



Leather Holsters For RDR4320 / RDR4350 / RDR4380



Single Unit Rapid Charger CH4301



**6 Bank Rapid Charger** CH4306



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

Created in U.S.A.

For Sales, Warranty and Customer Support please contact: