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INTRINSICALLY SAFE SERIES



RDR4330 UHF / VHF RDR4360 UHF / VHF RDR4390 UHF / VHF

The Intelligent Choice for Digital Two-Way Radio Communication



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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. RDR4330, RDR4360 and RDR4390 Intrinsically Safe radios are designed to be used at Chemical Plants, Oil Refineries, Gas Mains, Coal Mining, HAZMAT Teams, Industrial Painting, Utility Companies, Environmental Companies, HVAC Companies, and Grain / Sugar Refineries.

RDR4330 / RDR4360 / RDR4390 FEATURES

INTRINSICALLY SAFE RCA RDR43x0 Series Intrinsically Safe radios are SGS certified to the requirements of UL 913 5th Ed., TIA 4950-A, CSA C22.2 No. 157-92 Class I, II, III; Div. 1; Groups C-G / Div. 2; Groups A-G; Temp T3C hazardous locations. specifically designed for use where flammable gas, vapors or combustible dust may be present.

ADVANCED MULTI-MODE OPERATION With different operating modes, Conventional Analog, Conventional Digital DMR Tier II, Trunked Digital DMR Tier III, Prodigi Plus[™], MPT 1327, these portable radios will truly meet even the most demanding communication needs. The RDR43x0 Intrinsically Safe series deliver fast, 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 Intrinsically Safe 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 Intrinsically Safe 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 Prodigi[™] 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 Intrinsically Safe series portables come in 3 different models, the standard RDR4330 unit; the upgraded RDR4360 with large, color display and 11 programmable function keys; the advanced RDR4390 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 providing larger usable coverage in areas where analog communication will be very poor or not possible at all.

FULL SHIFT PERFORMANCE The RCA Prodigi[™] RDR43x0 Intrinsically Safe 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 RDR4330 with 2000mAh Lithium Ion battery can provide up to 10 hours of operation in Analog mode and up to 14 hours of operation in Digital mode.

CRYSTAL CLEAR AUDIO Designed with X-Sound+HD[™] for exceptional voice quality. The RDR43x0 Intrinsically Safe 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 Intrinsically Safe 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 Intrinsically Safe series portables are backed standard by an industry leading, hassle-free Three (3) Year Warranty.





• X-Sound+HD Enhanced Audio

• Up to 23 Programmable Function

Keys (model dependant)

MIL-STD 810C, D, E, F, G

RDR4330 / RDR4360 / RDR4390 SPECIFICATIONS

Large Color Display

Clarity

• IP67 Design

3 Year Warranty

Features and Options

- DMR TII Conventional and TIII Single* and Multi-Site Trunking* Modes
- Prodigi Plus[™] Mode*
- Analog Conventional and MPT • Trunking* Modes
- 3.5 Watts VHF and UHF
- Group and Private Calling
- Text Messaging •
- Scanning & Priority Scanning
- Roaming*

Model

Communication **Protocols & Standards**

Frequency Bands

Channel Capacity

Channel Spacing

Battery Volume

Working Time (5-5-90 duty cycle, high

TX power) Dimensions

Operating Voltage

(Standard battery, not including antenna) Weight (Standard battery,

including antenna) Frequency Stability

Emission Designators

LCD Display

GPS

Storage

GPS Location Reportinging*

GENERAL SPECIFICATIONS

160*128pixel, 65535 color, 1.8

MicroSDHC, UHS Speed Class U1

Analog 11K0F3E, 16K0F3E

Digital 7K60F1D, 7K60F1E

inches color screen Accuracy<10m, TTFF cold start 1

min / hot start 10 sec

355±1%g

±0.5ppm







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L SPECIFICATIONS	TRANSMITTER	
RDR4330/RDR4335/RDR4360/ RDR4365/RDR4390/RDR4395	Power Output	Up to 3.5W, 2 Programmable Levels
DMR TII and TIII	FM Modulation	11K0F3E@12.5KHz
ETSI-TS102 361-1, -2, -3, -4 Analog Conventional and MPT	4FSK Digital Modulation	12.5khz Data: 7K60F1D 12.5khz Voice: 7K60F1E
Trunking 136-174MHz: 400-470MHz	Conducted / Radiated Emission Modulation Limiting	-36dBm < 1GHz; -30dBm > 1GHz
32 / 1024 (model dependant)		±2.5KHz@12.5KHz; ±5.0KHz@25KHz
12.5KHz / 25KHz	FM Noise	40dB@12.5KHz; 45dB@25KHz
7.4V 2000mAh (Lithium battery)	Adjacent Channel Power	60dB@12.5KHz; 70dB@25KHz
Analog: >12h; Digital: >16h	Audio Response	+1~-3dB
	Audio Distortion	≤3%
	Digital Voice Vocoder	AMBE++ or NVOC
128*55*35.5(H*W*D)		

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.

For more information, visit RCACommunicationsSystems.com

ACCESSORIES & OPTIONS

RDR4330 / RDR4360 / RDR4390 ACCESSORIES



Medium Duty Speaker Mic SM223IS-X93



Heavy Duty Speaker Mic SM318-X93



Waterproof Speaker Mic SM311WP-X93



Surveillance Kit SK24NE-X93



Belt Clip BC4300



Stubby Antenna ANH4300-S VHF/UHF

Whip Antenna ANH4300-W VHF/UHF



Battery

B4320LI



Nylon Holsters For RDR4330 / RDR4360 / RDR4390



Leather Holsters For RDR4330 / RDR4360 / RDR4390



Single Unit Rapid Charger CH4301



6 Bank Rapid Charger CH4306



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Created in U.S.A.

For Sales, Warranty and Customer Support please contact: