



RCA
Communications Systems

prodigi™ SERIES
PROFESSIONAL DIGITAL RADIO PRODUCTS



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

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



VERSATILE & AFFORDABLE!

prodigi[™]
PROFESSIONAL DIGITAL RADIO PRODUCTS

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. 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

RELIABLE & DURABLE RCA RDR4300 Series digital radios comply with Military Standards MIL-STD-810 C/D/E/F/G. RDR4300 radios also have the highest Ingress Protection (IP) level at IP67; the best protection rating in the industry against dust and water.

CROSS-BRAND COMPATIBILITY Designed according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR4300 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.

CRYSTAL CLEAR AUDIO QUALITY, IMPROVED COVERAGE Designed with X-Sound+ HD[™] for exceptional voice quality. The RDR4300 series radios provide loud 1 Watt of audio power, combined with digital error correction technology which eliminates background noise and static from the voice transmissions. You get crystal clear voice messages and improved radio coverage and quality.

RELIABILITY, SAFETY, AND PRODUCTIVITY FIRST The RDR4300 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.

MULTIPLE OPERATING MODES The RDR4300 series operates in Analog & Digital modes ensuring smooth migration from analog to digital. Direct Mode offers the ability to have two communication paths per frequency which doubles call capacity, eliminating the need for a repeater. DMR TII+

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 2250mAh Lithium Ion battery provides up to 13 hours of operation in Analog mode and up to 18 hours of operation in Digital mode.

TRUE OPERATIONAL VERSATILITY The RDR4300 series radios come in three different models, the standard no display RDR4320 unit; the upgraded RDR4350 equipped with LCD display and industry leading 7 programmable function buttons and the advanced RDR4380 unit equipped with LCD 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 and many more.

INDUSTRY LEADING WARRANTY The RDR4300 series radios are backed standard by an industry leading, hassle-free Three (3) Year Warranty.



RDR4320

RDR4350

RDR4380



Bluetooth[™]





RDR4320 / RDR4350 / RDR4380 SPECIFICATIONS

Features and Options

- DMR TII Conventional and TIII Single and Multi-Site Trunking Modes
- Prodigy Plus Mode*
- Analog Conventional and MPT Trunking Modes
- Direct Mode Operation (DMO)
- 40 Watts VHF and UHF
- Group and Private Calling
- TX Override
- Text Messaging
- Scanning & Priority Scanning
- Roaming*
- GPS*
- Bluetooth*
- X-Sound HD Enhanced Audio Clarity
- Large Color Display
- 5 Programmable Function Keys
- IP54 Design
- MIL-STD 810C, D, E, F, G
- 3 Year Warranty

Emergency / Security Features

- Radio Check
- Remote Radio Monitor
- Radio Kill / Active
- Advanced Digital Encryption Options* (ARC4, Prodigy Advanced 256bit Encryption)
- Call Alert
- Emergency Alerts
- Man Down Alert*
- Lone Worker Alert
- Voice Recording*



* Optional Features

GENERAL SPECIFICATIONS	
Model	RDR4320™ / RDR4350™ / RDR4380™
Communication Protocols & Standards	DMR Tier 3 Digital Trunking ETSI-TS102 361-1, -2, -3, -4 Analog MPT Trunking
Frequency Bands	136-174MHz; 400-470MHz
Channel Spacing	12.5KHz / 20KHz / 25KHz
Operating Voltage	7.4V
Battery Volume	2250mAh (Lithium battery)
Working Time (5-5-90 duty cycle, high TX power)	Analog: >13h; Digital: >18h
Dimensions (Standard battery, not including antenna)	128*55*35.5(H*W*D)
Weight (Standard battery, including antenna)	355±1%g
Frequency Stability	±0.5ppm
LCD Display	160*128pixel, 65535 color, 1.8 inches color screen
GPS	Accuracy<10m, TTFF cold start 1 min / hot start 10 sec
Encryption & Storage	Standard Micro SD
Emission Designators	Analog 11K0F3E, 16K0F3E Digital 7K60F1D, 7K60F1E

TRANSMITTER	
Power Output	VHF/UHF High power: 5W; Low power: 1W
FM Modulation	11K0F3E@12.5KHz; 16K0F3E@20KHz
4FSK Digital Modulation	12.5khz Data: 7K60F1D 12.5khz Voice: 7K60F1E
Conducted / Radiated Emission	-36dBm < 1GHz; -30dBm > 1GHz
Modulation Limiting	±2.5KHz@12.5KHz; ±4.0KHz@20KHz; ±5.0KHz@25KHz
FM Noise	40dB@12.5KHz; 43dB@20KHz; 45dB@25KHz
Adjacent Channel Power	60dB@12.5KHz; 70dB@20 / 25KHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
Digital Voice Vocoder	AMBE++ or NVOC

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

RECEIVER		
Sensitivity	Analog	0.3µV(12dB SINAD); 0.22µV(Typical value) (12dB SINAD)
	Digital	0.4µV(20dB SINAD) 0.3µV / BER5%
Sensitivity TIA-603 / ETSI	60dB@12.5KHz / 70dB@20 & 25KHz	
Intermodulation	TIA-603	70dB@12.5 / 20 / 25 KHz
	ETSI	65dB@12.5 / 20 / 25 KHz
Spurious Response Rejection TIA-603 / ETSI	70dB@12.5 / 20 / 25 KHz	
Blocking	TIA-603	80dB
	ETSI	84dB
Hum and Noise	40dB@12.5KHz; 43dB@20KHz; 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
Note: The above specifications comply with standard tests accordingly, and due to continuous technical development, they are subject to changes without prior notice.	

ACCESSORIES & OPTIONS



Medium Duty Speaker Mic
SM220-X93



Heavy Duty Speaker Mic
SM310-X93

(Bluetooth option available)



One-Wire Surveillance Kit D-Loop Style
SK11DL-X93



One-Wire Surveillance Kit Ear Hook Style
SK11EH-X93

(Bluetooth option available)



One-Wire Surveillance Kit In-Ear Style
SK11NE-X93

(Bluetooth option available)



Two-Wire Surveillance Kit In-Ear Style
SK21NE-X93

(Bluetooth option available)



Light Duty Behind the Head Headset
HS11V-X93



Heavy Duty Behind the Head Headset
HS61NR-X93, HS71NR-X93

(Bluetooth option available)



Nylon Holsters
For RDR4320 /
RDR4350 / RDR4380



Leather Holsters
For RDR4320 /
RDR4350 / RDR4380



Battery Upgrade
B4335LI
Lithium-Ion
7.4V 3500mAh 25.9 Wh



6 Bank Charger
CH4306



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