



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 by an industry leading, hassle-free, Three (3) Year Warranty.



RDR4320

RDR4350

RDR4380



RDR4320 / RDR4350 / RDR4380 SPECIFICATIONS

More Features

- Full features compliant with European ETSI DMR Tier II & III & PDT standards
- Support conventional and trunking modes; support analog and digital modes
- UHF & VHF
- High-performance processor, large volume battery for extra-long standby time
- Standard embedded Micro SD card for voice recording and encryption
- GPS, Bluetooth
- Mandown function for more security
- High sensitivity receiving for enhanced communication distance
- Flexible and practical data services and operations
- Big loudspeaker and noise reduction for high quality voice communication
- Friendly open API for third party development

GENERAL SPECIFICATIONS	
Model	RDR4320™ / RDR4350™ / RDR4380™
Communication Protocols & Standards	PDT digital trunking GA / T1056, 1057, 1058, 1059 DMR tier 3 digital trunking ETSI-TS102 361-1, -2, -3, -4 Analog trunking MPT 1327 / MPT1343
Frequency Bands	136-174MHz; 400-470MHz; 450-520MHz
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 (SPH6000S non-display)
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	
RF Power Output	VHF High power: 5W; VHF Low power: 1W
FM Modulation	11K0F3E@12.5KHz; 14K0F3E@20KHz; 16K0F3E@20KHz
4FSK Digital Modulation	12.5kHz Data: 7F60FXD 12.5kHz Data& voice: 7F60FXW
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 VNOV

RECEIVER	
Sensitivity	Analog 0.3μV(12dB SINAD); 0.22μV(Typical value)(12dB SINAD)
	Digital 0.4μV(20dB SINAD)
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

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



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



Allcan Distributors
13044 Yellowhead Trail
Edmonton, Alberta, T5L 3C1

www.allcan.com

order@allcan.com
1.800.661.1905