



PRODIGI, the Intelligent Choice for Digital Two-Way Communication

RDR4300 Portables



RDR4320

RDR4350 RDR4380

5 Watts, 32/1024 Channels, Analog, DMR Tier II, III, **Prodigi Plus**













ADVANCED MULTI-MODE FUNCTIONALITY With different operating modes - Conventional Analog, Conventional Digital DMR Tier II, Trunked Digital DMR Tier III, Digital DMR based Prodigi Plus[™], Trunked Analog MPT 1327; the portable will truly meet even the most demanding communication needs. The RDR4300 series portables 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 RDR4300 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 RDR4300 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 RDR4300 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 providing larger usable coverage in areas where analog communication will be very poor or not possible at all.

FULL SHIFT PERFORMANCE The RCA Prodigi[™] RDR4300 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 10 hours of operation in Analog mode and up to 12 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 guality. The RDR4300 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 RDR4300 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.



SPECIFICATIONS RDR4320 / RDR4350 / RDR4380

AVAILABLE INTEGRATED GPS Location tracking service is available as a builtin 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.

AVAILABLE WIRELESS ACCESSORIES Wireless accessory options are important for many users nowadays. The available wireless functionality allows for the connection of RCA approved wireless speaker mics, surveillance kits and headsets.

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

	TRANSMITTER		
]	Power Output	VHF/UHF High power: 5W; Low power: 1W	
	FM Modulation	11KOF3E@12.5KHz	
	4FSK Digital Modulation	12.5khz Data: 7K60F1D 12.5khz Voice: 7K60F1E	
	Conducted / Radiated Emission	-36dBm < 1GHz; -30dBm > 1GHz	
	Modulation Limiting	±2.5KHz@12.5KHz; ±5.0KHz@25KHz	
	FM Noise	40dB@12.5KHz; 45dB@25KHz	
_	Adjacent Channel Power	60dB@12.5KHz; 70dB@25KHz	
	Audio Response	+1~-3dB	
	Audio Distortion	≤3%	
	Digital Voice Vocoder	AMBE++ or NVOC	

	RECEIVE	R	
ensitivity	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	I.OW	
Rated Audio Distortion	≤3%		
Audio Response	+1~-3dB		
Conducted Spurious Emission	< -57dBm		

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

Features and Options

- DMR TII Conventional and TIII Single and Multi-Site Trunking Modes
- Prodigi Plus[™] Mode^{*}
- Analog Conventional and MPT Trunking Modes
- Direct Mode Operation (DMO)
- 5 Watts VHF and UHF
- Group and Private Calling
- TX Override
- Text Messaging
- Scanning & Priority Scanning
- Roaming*
- GPS*
- Wireless AccessoryLink*
- X-Sound HD Enhanced Audio Clarity
- Large Color Display
- Up to 23 Programmable Function Keys (model dependant)
- IP67 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, Prodigi Advanced 256bit Encryption)
- Call Alert
- Emergency Alerts
- Man Down Alert*
- Lone Worker Alert
- Voice Recording*

* Optional Features



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GENERAL SPECIFICATIONS				
Model	RDR432 RDR438	0™ / RDR4350™ / 0™		
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 Capacity	32 / 1024 (model dependant)			
Channel Spacing	12.5KHz / 25KHz			
Operating Voltage	7.4V			
Battery Volume	2250mAh (Lithium battery)			
Working Time (5-5-90 duty cycle, high TX power)	Analog: >12h; 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			
Storage MicroSDHC, U		HC, UHS Speed Class U1		
Furthering Destingation	Analog	11K0F3E, 16K0F3E		
Emission Designators	Digital	7K60F1D, 7K60F1E		

GENERAL SPECIFICATIONS

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				
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				

< 10 m

Horizontal location

accuracy