



PROFESSIONAL DIGITAL RADIO PRODUCTS PROFESSIONAL DIGITAL RADIO PRODUCTS SERIES





RDR6350 UHF / VHF



The Intelligent Choice for Digital Two-Way 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. RDR6350 mobile radios 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.

RDR6350 FEATURES

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 RDR6350 mobile radio delivers 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 RDR6350 mobile radio is 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 The RDR6350 mobile radio is 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 IP54 rated, water and dust resistant radios.

TRUE OPERATIONAL VERSATILITY The RDR6350 mobile radio has a large, color display and 7 programmable function keys. Businesses, Departments and Government Agencies can take advantage of advanced features such as Caller ID, Group and Private Call, Radio Check, Radio Monitor, Radio Enable/Disable, Emergency, 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 be clear of background noise regardless of the distance between two radio units, providing virtually no deterioration of the voice quality. This provides a larger usable coverage area where analog communication will be very poor or not possible at all.

CRYSTAL CLEAR AUDIO Designed with X-Sound+ HD[™] for exceptional voice quality. The RDR6350 mobile radio provides loud 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 RDR6350 mobile radio meets 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 AES 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.

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 RDR6350 mobiles are backed standard by an industry leading, hassle-free Three (3) Year Warranty.



- 1) LED Indicator
 2) Volume Control / Channel Selector Knob
 3) LCD Display
 4) Option / Back / Home Button
 5) Menu / Enter Button
- 5) Menu / Enter Buttor6) Up Button
- 7) Down Button

- 8) Speaker
- 9) Emergency Call Button
- 10) Handheld Microphone Interface
- 11) Power On / Off / On-Hook Button
- 12) Enter / P1 Key
- 13) Cancel / P2 Button
- 14) Power Level / Lock / Unlock Button



RDR6350 SPECIFICATIONS

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)
- 40 Watts VHF and UHF
- · Group and Private Calling
- TX Override
- · Text Messaging
- · Scanning & Priority Scanning





SELEC I ALH











EMERGENCY

GENERAL SPECIFICATIONS				
Model	RDR6350™			
Communication Protocols & Standards	DMR Tier 3 Digital Trunking ETSI- TS102 361-1, -2, -3, -4 Analog MPT Trunking			
Frequency Bands	136-174N	136-174MHz; 400-470MHz		
Channel Capacity	1024			
Channel Spacing	12.5KHz	12.5KHz / 20KHz / 25KHz		
Operating Voltage	13.6V ± 1	13.6V ± 15%		
	Standby	Current	< 0.6A	
Current Consumption	Receiving Current	9	< 0.2A	
	Transmitting Current		< 5A(5W); < 8A(25W); < 12A(40W)	
Antenna Impedance	50Ω			
Dimensions	2.4 in.(60mm) x 6.6 in.(168mm) x 6.9 in.(175mm)			
Weight	63.5 onces (1.8 kg)			
Frequency Stability	±0.5ppm			
LCD Display	2.2 inches transflective/ transmissive TET LCD display, resolution: 320*240			
GPS	Accuracy<10m, TTFF cold start 1 min / hot start 10 sec			
Storage	Standard Micro SD			
Emission Designator	Analog	11K0F3E, 16K0F3E		
	Digital	tal 7K60F1D, 7K60F1E		

•	Roaming*
•	GPS*

- Wireless AccessoryLink*
- · 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

TRANSMITTER		
Power Output	VHF/UHF High power: 40W; Low power: 5W	
FM Modulation	11KOF3E@12.5KHz; 16KOF3E@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	
Rated Audio Output Power	4W @20 ohms (built-in)	
ENVIRONMENTAL SPECIFICATIONS		
Operation temperature/	-30°C~+60°C / -40°C~+85°C	

Adjacent Channel Power	60dB@12.5KHz; 70dB@20 / 25KHz		
Audio Response	+1~-3dB		
Audio Distortion	≤3%		
Digital Voice Vocoder	AMBE++ or NVOC		
Rated Audio Output Power	4W @20 ohms (built-in)		
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		
Water & dust proof	Integral type	IP54	
	Split type	Control head IP67, main unit IP54	
Humidity	According to MIL-STD-810 C / D / E / F / G standard		
Shock& vibration	According to MIL-STD-810 C / D / E / F / G standard		

Emergency / Security Features

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

RECEIVER				
Sensitivity	Analog	0.3μV(12dB SINAD): 0.22μV(Typical value) (12dB SINAD)		
		0.4μV(20dB SINAD)		
	Digital	0.3μV / BER5%		
Adjacent Channel Sensitivity	TIA-603	65dB@12.5KHz / 75dB@20 & 25KHz		
	ETSI	60dB@12.5KHz / 70dB@20 & 25KHz		
Intermodulation	TIA-603	75dB@12.5 / 20 / 25KHz		
	ETSI	70dB@12.5 / 20 / 25KHz		
Spurious Response	TIA-603	75dB@12.5 / 20 / 25KHz		
Rejection	ETSI	70dB@12.5 / 20 / 25KHz		
Dia alde e	TIA-603	90dB		
Blocking	ETSI	84dB		
Receiving Rated Audio Power	Built-in (load 20Ω)	4W		
	External (load 8Ω)	7.5W		
Hum and Noise	40dB@12.5KHz; 43dB@20KHz; 45dB@25KHz;			
Rated Audio Distortion	≤3%			
Audio Response	+1~-3dB	+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



Medium Duty Mobile Mic MM6350



Keypad Speaker Mic MM6350K



Desktop Base Station Mic DMM6350





GPS Antenna ANTGPS6350



Desktop Power Supply & Housing SS-18 & BSC6350



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

Created in U.S.A.

For Sales, Warranty and Customer Support please contact: