

PRODIGI™, the Intelligent Choice for Digital Two-Way Communication

RDR6350 MOBILE



40 Watts, 1024 Channels, Analog, DMR Tier II, III, Prodigy Plus™

ADVANCED MULTI-MODE FUNCTIONALITY With different operating modes — Conventional Analog, Conventional Digital DMR Tier II, Trunked Digital DMR Tier III, Digital DMR based Prodigy 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 PRODIGI™ 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 its 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.



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
- 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

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*

* Optional Features

GENERAL SPECIFICATIONS	
Model	RDR6350™
Communication Protocols & Standards	DMR Tier 3 Digital Trunking ETSI-TS102 361-1, -2, -3, -4 Analog MPT Trunking
Frequency Bands	136-174MHz; 400-470MHz
Channel Capacity	1024
Channel Spacing	12.5KHz / 20KHz / 25KHz
Operating Voltage	13.6V ± 15%
Current Consumption	Standby Current < 0.6A
	Receiving Current < 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 ounces (1.8 kg)
Frequency Stability	±0.5ppm
LCD Display	2.2 inches transreflective/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 7K60F1D, 7K60F1E

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

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

TRANSMITTER	
Power Output	VHF/UHF High power: 40W; Low power: 5W
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

RECEIVER		
Sensitivity	Analog	0.3μV(12dB SINAD); 0.22μV(Typical value) (12dB SINAD)
	Digital	0.4μV(20dB SINAD) 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 Rejection	TIA-603	75dB@12.5 / 20 / 25KHz
	ETSI	70dB@12.5 / 20 / 25KHz
Blocking	TIA-603	90dB
	ETSI	84dB
Receiving Rated Audio Power	Built-in (load 20Ω)	3W
	External (load 8Ω)	7.5W
Hum and Noise	40dB@12.5KHz; 43dB@20KHz; 45dB@25KHz;	
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.