



RDR4300 Portables Intrinsically Safe



RDR4330

RDR4360

RDR4390

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



710147

Intrinsically Safe Certified to UL 913 5th Ed., TIA 4950-A, CSA C22.2 No. 157-92 Class I, II, III; Div. 1; Groups C-G / Div. 2; Groups A-G; Temp T3C

Blue radio cases are available.





RDR4395

WARRANTY













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

INTRINSICALLY SAFE RCA RDR4300 Series Intrinsically Safe radios are SGS certified to the requirements of UL 913 5th Ed., TIA 4950-A, CSA C22.2 No. 157-92 Class I, II, III; Div. 1; Groups C-G / Div. 2; Groups A-G; Temp T3C hazardous locations. specifically designed for use where flammable gas, vapors or combustible dust may be present.

ADVANCED MULTI-MODE FUNCTIONALITY With different operating modes — Conventional Analog, Conventional Digital DMR Tier II, Trunked Digital DMR Tier III, Digital DMR based Prodigi PlusTM, Trunked Analog MPT 1327; the portable will truly meet even the most demanding communication needs. The RDR4300 Intrinsically Safe 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 Intrinsically Safe 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 Intrinsically Safe 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 Intrinsically Safe series portables come in 3 different models, the standard RDR4330 unit; the upgraded RDR4360 with large, color display and 11 programmable function keys; the advanced RDR4390 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 Intrinsically Safe 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 RDR4330 with 2000mAh Lithium Ion battery can provide up to 12 hours of operation in Analog mode and up to 16 hours of operation in Digital mode.

CRYSTAL CLEAR AUDIO Designed with X-Sound+HD™ for exceptional voice quality. The RDR4300 Intrinsically Safe 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 Intrinsically Safe 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 RDR4330 / RDR4360 / RDR4390

Features and Options

- · DMR TII Conventional and TIII Single and Multi-Site Trunking Modes
- Prodigi Plus[™] Mode*
- · Analog Conventional and MPT Trunking
- · Direct Mode Operation (DMO)
- · 3.5 Watts VHF and UHF
- · Group and Private Calling
- TX Override
- Text Messaging
- · Scanning & Priority Scanning
- · Roaming*
- GPS*
- · 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 Encryption)
- Call Alert
- · Emergency Alerts
- Man Down Alert*
- · Lone Worker Alert
- · Voice Recording*
- * Optional Features

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.

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

| GENERAL SPECIFICATIONS | | | | |
|--|---|--------------------------------------|--|--|
| Model | RDR4330 / RDR4335 / RDR4360 / RDR4365 / RDR4390 / RDR4395 | | | |
| 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 | 2000mAh (Lithium battery) | | | |
| Working Time (5-5-90 duty cycle, high TX power) | Analog: >12h; Digital: >16h | | | |
| 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, UHS Speed Class U1 | | | |
| Emission Designators | Analog Digital | 11K0F3E, 16K0F3E 7K60F1D, 7K60F1E | | |

| -30°C~+60°C / -40°C^+85°C |
|---|
| |
| IEC 61000-4-2 (level 4); ±8KV(contact); ±15KV(air) |
| MIL-STD-810 C / D / E / F / G |
| 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 | |
| Horizontal location accuracy | < 10 m | |

| TRANSMITTER | | |
|----------------------------------|---|--|
| Power Output | VHF/UHF High power: 3.5W; Low power: 1W | |
| FM Modulation | 11K0F3E@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 | |

| RECEIVER | | | | |
|---|---------------------------|---|--|--|
| Sensitivity | 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 | | | |
| 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.



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For Sales, Warranty and Customer Support please contact: