



RCA
Communications Systems

prodigi[®] SERIES
PROFESSIONAL DIGITAL RADIO PRODUCTS



RDR2750 UHF / VHF
Digital Radio Base Station



**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. The RDR2750 is a versatile compact base station, designed to sit on a desk or mount to a wall, allowing for usage in a wide range of business applications. Industries such as manufacturing, warehousing, security, hotels and schools all benefit from its basic push to talk functionality and advanced emergency features.

RDR2750 FEATURES

Durable and Versatile Design The RCA RDR2750 is a commercial-grade two-way radio base station with durable metal housing, designed to sit on an office desk or be mounted to a wall or other flat surface. The base station comes equipped with a 16 character display, navigation buttons, programmable function buttons, built-in PTT or options for external desktop mic, palm mic, speaker mic or a headset.

Simple, Reliable Communication The RCA RDR2750 base station is the newest addition to the PRODIGI™ line of Professional DMR Digital Radios. Simple and cost-effective, the RCA digital radios are designed to connect your workforce efficiently and provide you with reliable communication allowing you to focus on growing your business.

Cross-Band Compatibility Designed strictly according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR2750 is compatible with all RCA two-way radios as well as all other major brands.

Upgrade To Digital At Your Own Speed Analog and Digital operation will give you the flexibility to upgrade to Digital at your own speed, without sacrificing safety and keeping your business operations running smoothly during the transition period.

Reliability, Safety, and Productivity First The RDR2750 base station 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.

Advanced Features at Your Fingertips 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.

Clear and Loud Audio Designed with X-Sound+ HD™ for exceptional voice quality, the RDR2750 digital base station's large internal speaker provides 2.5 Watts of loud and clear audio.

Industry Leading Warranty The RDR2750 base station radio is backed by an industry leading, hassle-free, Two (2) Year Warranty.



SELECTALK™
PRIVATE AND GROUP CALLING

2 YEAR
WARRANTY
PROTECTION PROGRAM

DMR
DIGITAL MOBILE RADIO ASSOCIATION

ENHANCED
EMERGENCY
& **SAFETY**
FEATURES

X-SOUND+HD
Enhanced Audio Clarity™



RDR2750 SPECIFICATIONS

Features & Options

- Loud Internal Speaker
- 2 Programmable Keys
- Navigation Keys
- LED Indication
- 16-Character Alphanumeric Display
- RSSI Indicator
- CTCSS/DCS Encode/Decode
- DTMF Encode / Decode
- Scan
- Mixed Mode (Analog / Digital) Scan
- Priority Scan
- Channel Activity Monitor
- Alert Tones On/Off
- RPT / Talkaround
- Detachable 90° BNC Antenna
- Desktop or Palm Mic Option*
- Speaker Mic or Headset Option*
- Desktop and Wall Mount Options
- Swivel Desktop Bracket
- IP54 Rating
- Designed to meet MIL-STD 810 C,D,E,F,G

Digital Mode Specific Features

- Contact List for Up to 1,000 Records
- All Call, Group Call, Private Call
- Manual Private Call Dial
- PTT ID Encode/Decode
- Basic Encryption
- Advanced Encryption Option*
- Radio Check
- Radio Enable / Disable
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Direct Mode Operation (DMO)
- Pre-Saved (Quick)Text Messaging
- One Touch Access

* Optional Features/Accessories

GENERAL SPECIFICATIONS		
Model	RDR2750	
Channel Numbers	1000	
Channel Spacing	Digital: 12.5KHz / Analog: 12.5KHz / 25KHz	
Working Voltage	DC 12V	
Frequency	UHF: 400-470Mhz	
Weight	620gr. / 1.35lbs (mounting bracket included)	
Size: HxWxD (inches)	44.2x104x142.3 (mm.) / 1.75x4.1x5.6 (in.)	
Power	100-240V to 12V Power Supply	
RECEIVER		
Analog Sensitivity	0.22 μ V / -120dBm (12dB SINAD)	
Digital Sensitivity	0.3uV/-117.4dBm (BER 5%)	
Intermodulation	60dB	
Adjacent Channel Selectivity	60dB@12.5KHz	
Co-Channel Rejection	12dB@12.5KHz	
Spurious Response Rejection	70dB	
Receive Spurious Radiation	-57dBm@<1GHZ -47dBm@>1GHZ	
Block	84dB	
Rated Audio Power	2.5W @ 8 Ohms (Internal) / 1.25W @16 Ohms	
Rated Audio Distortion	\leq 3%	
TRANSMITTER		
Frequency Stability	\pm 1.0 ppm	
Transmit Power	High: 5W / Low: 2W	
FM Noise	40dB@12.5KHz	
Intermodulation	60dB	
Transmit Spurious Radiation	-36dBm@<1GHZ, -30dBm@>1GHZ	
Adjacent Channel Power	-60dB@12.5KHz	
Modulation Limit	2.5KHz@12.5KHz	
Idle Slot Power	-57dBm	
Audio Response	+1dB~-3dB	
Rated Audio Distortion	\leq 3%	
FSK Error	\leq 3%	
Emission Designator	Analog	12.5KHz: 11K0F3E; 25KHz: 16K0F3E;
	4FSK Digital	12.5KHz: 7K60F1D; 7K60F1E;
ENVIRONMENTAL SPECIFICATIONS		
Operation temperature/ Storage temperature	(-20°C) \sim +50°C / (-4°F) \sim +122°F / (-40°C) \sim +80°C / (-40°F) \sim +176°F	
Designed to meet Environmental Test Standard for Temperature, Fall, Vibration	MIL-STD-810 C; D; E; F; G	
IP Rating	IP54 Dust and Water Resistant	

ACCESSORIES & OPTIONS



Mobile Microphone
MM301HD



Heavy Duty Speaker Mic
SM310-X03S



Medium Duty Speaker Mic
SM220-X03S



Light Duty Behind the Head Headset
HS12-X03S



High Noise Over the Head Headset
HS65NR-X03S



High Noise Behind the Head Headset
HS75NR-X03S



Desktop Microphone
DM350HD



Mounting Bracket
MB2750SCK



Antenna
ANB2750 V/U



Universal Mobile Antenna Mount
G8PI



Mobile Antenna
QW450



Mobile Antenna
QW150

Authorized Dealer:



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