



**RCA**  
Communications Systems

# *prodigi*<sup>TM</sup> SERIES

PROFESSIONAL DIGITAL RADIO PRODUCTS



**RDR3500** (UHF / VHF)

**RDR3600** (UHF / VHF)

**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. RDR3500 and RDR3600 are designed to be used in a wide range of applications. Industries such as manufacturing, construction, security, hotels and schools all benefit from its basic push to talk functionality and advanced emergency features.

## RDR3500 / RDR3600 FEATURES

### EXCEPTIONAL AUDIO QUALITY, BETTER

**COVERAGE-** RCA PRODIGI™ digital radios are designed with X-Sound+ HD™ for exceptional voice quality. RDR3500/3600 radios completely eliminate background noise and static from voice transmissions, delivering a crystal clear message AND improved radio coverage compared to analog.

**ANALOG + DIGITAL OPERATION-** PRODIGI™ Radios can operate in both analog and digital modes and are compatible with existing analog equipment. If you want to upgrade to digital but can't afford to change all of your radios at once, the RDR3500/3600 series will enable you to purchase new digital equipment at your own pace.

**INTELLIGENTLY DESIGNED-** Every RDR3500/3600 radio is engineered to be extremely efficient and simple to use. RCA's PRODIGI™ radios have a compact, lightweight design and are very easy to operate. Each radio also includes a multi-pin accessory connector which uses screws to securely attach accessories to your radio.

**POWER IS PERFORMANCE-** PRODIGI™ Radios are designed to conserve battery power. Digital transmissions will reduce your power consumption by 40% compared to analog transmissions. Reduced power consumption extends the radios operating time, enabling your employees to stay connected for up to 14 hours of regular usage. Eliminating the need to recharge during long shifts.

**SUBMERSIBLE AND WEATHERPROOF-** Meeting IP67 certification standards, RDR3500/3600 radios are designed to stand up to dust and water. PRODIGI™ radios can withstand being fully submerged in up to 3 feet (1 meter) of water for as long as 30 minutes.

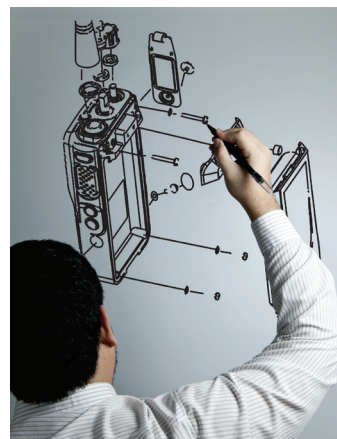
**EMERGENCY AND SECURITY-** In critical situations, RDR3500/3600 radios allow the user to initiate an

emergency alarm which overrides all activity on the channel. In addition, if a PRODIGI™ radio is lost or stolen, users can easily disable a unit until it is returned and then enable it when it's recovered.

**ENHANCED PRIVACY CONTROL-** SelectTalk™ allows users to talk privately with specific individuals or groups without broadcasting to everyone on the channel. For added privacy, users can employ digitally-based voice encryption to prevent unauthorized transmission monitoring.

**INDUSTRY LEADING WARRANTY-** RDR3500/3600 radios are backed by a Three (3) Year Warranty.

**MOTOROLA MOTOTRBO COMPATIBLE -** RCA Digital RDR3500/3600 TDMA Radios adhere to the DMR Standard.



**SELECTTALK™**  
PRIVATE AND GROUP CALLING

**3 YEAR**  
**WARRANTY**  
PROTECTION PROGRAM

**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION

**ENHANCED**  
**EMERGENCY**  
**& SAFETY**  
**FEATURES**

**X-SOUND+HD**  
Enhanced Audio Clarity™





## RDR3500 / RDR3600 SPECIFICATIONS

### FEATURES & OPTIONS

- 4 Programmable Keys (RDR3600/ RDR3500)
- 16-Character Alpha Numeric Display (RDR3600)
- Full Keypad (RDR3600)
- LED Indicator
- Voice Channel Announce (RDR3500)
- RSSI Indicator (RDR3600)
- Battery Level Indicator
- CTCSS/DCS Encode/Decode
- DTMF Encode
- DTMF Paging (RDR3600)
- PTT ID
- VOX - Voice Activated Feature
- Scanning
- Channel Activity Monitor
- Fully Submersible - IP67 Certified
- Meets MIL-STD requirements

### DIGITAL MODE SPECIFIC FEATURES

- Contact List for Up to 1,000 Records
- All Call, Group Call, Private Call
- Privacy Voice Encryption
- Radio Check
- Radio Kill/Active
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Text Messaging
- PTT ID Encode (RDR3500)
- PTT ID Encode/Decode (RDR3600)
- Mixed Mode (Analog/Digital) Scanning
- One Touch Access
- Keypad Lock (RDR3600)
- Voice Channel Announce

GENERAL SPECIFICATIONS		
Model	RDR3500™ / RDR3600™	
Channel Numbers	32 / 1000	
Channel Spacing	Digital:12.5KHz / Analog:12.5KHz/25KHz	
Working Voltage	DC 7.4V	
Frequency	VHF: 136-174MHz / UHF: 400-470Mhz UHF: 450-500Mhz	
Operating Temperature	(-20°C)~+50°C / (-4°F)~+122°F	
Storage Temperature	(-40°C)~+80°C / (-40°F)~+176°F	
Weight	320g / 0.7 lb.	
Size: HxWxD (inches)	5.3" x 2.5" x 1.5" (without antenna)	
Waterproof Level	IP67	
Battery	1800mAh Lithium-Ion Battery; Up to 14 hours of use	
Emission Designators	Analog	10K0F3E, 10K1F3E, 12K5F3E
	Digital	6K91FXD/FXW, 7K31FXW, 7K52FXW, 12K5FXD/FXW

RECEIVER	
Frequency Stability	± 1.0 ppm
Analog Sensitivity	0.22µV / -120dBm (12dB SINAD)
Digital Sensitivity	32/0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)
Intermodulation	60dB
Adjacent Channel Selectivity	60dB@12.5KHz
Co-Channel Rejection	-8dB@12.5KHz
Spurious Response Rejection	70dB
Receive Spurious Radiation	-57dBm@<1GHz, -47dBm@>1GHz
Block	84dB
Rated Audio Power	1W @16 Ohms
Rated Audio Distortion	≤3%

TRANSMITTER	
Transmit Power	5W
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
Modulation Character	+1dB---(-3)dB
FSK Error	≤3%
4FSK Digital Modulation	12.5KHz Data: 7K60F1D & 7K60FXD
	12.5KHz Voice: 7K60F1E & 7K60FXE
	Combination of 12.5 kHz Voice and Data: 7K60F1W

# ACCESSORIES & OPTIONS



**Medium Duty  
Speaker Mic**  
SM21-X83



**Heavy Duty  
Speaker Mic**  
SM31-X83



**One-Wire  
Surveillance Kit  
D-Loop Style**  
SK11DL-X83



**One-Wire  
Surveillance Kit  
Ear Hook Style**  
SK11EH-X83



**One-Wire  
Surveillance Kit  
In-Ear Style**  
SK11NE-X83



**Two-Wire  
Surveillance Kit  
In-Ear Style**  
SK21NE-X83



**Three-Wire  
Surveillance Kit  
In-Ear Style**  
SK31NE-X83



**Light Duty Behind the  
Head Headset**  
HS12-X83



**Heavy Duty Behind the  
Head Headset**  
HS61NR-X83, HS62NR-X83,  
HS72NR-X83



**Nylon Holsters**  
For RDR3500  
& RDR3600



**Leather Holsters**  
For RDR3500  
& RDR3600



**6 Bank Charger**  
CHU6 w/ RDR3500,  
RDR3600 cup



For more information, visit  
[www.RCACommunicationsSystems.com](http://www.RCACommunicationsSystems.com)

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