



**RCA**  
Communications Systems

**prodigi**™ SERIES  
PROFESSIONAL DIGITAL RADIO PRODUCTS

**4** YEAR  
WARRANTY  
PROTECTION PROGRAM



**RDR3500 UHF / VHF**  
**RDR3600 UHF / VHF**

**The Intelligent Choice for  
Digital Two-Way Communication**

**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION

**VERSATILE & AFFORDABLE!**

**prodigi**<sup>™</sup>  
PROFESSIONAL DIGITAL RADIO PRODUCTS

The RCA PRODIGI<sup>™</sup> Radio Series is compatible with other DMR Digital radios on the market. Operational in both digital and analog modes, the PRODIGI<sup>™</sup> 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<sup>™</sup> digital radios are designed with X-Sound+ HD<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> radios can withstand being fully submerged in up to 3 feet (1 meter) of water for as long as 30 minutes.

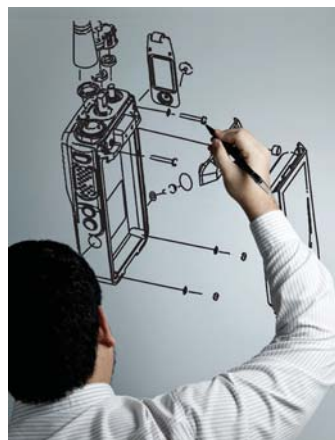
**Emergency and Security-** In critical situations, RDR3500/3600 radios allow the user to initiate an

emergency alarm which overrides all activity on the channel. In addition, if a PRODIGI<sup>™</sup> 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-** SelecTalk<sup>™</sup> 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 Four (4) Year Warranty.

**Motorola MotoTRBO Compatible -** RCA Digital RDR3500/3600 TDMA Radios adhere to the DMR Standard.



**SELEC TALK**<sup>™</sup>  
PRIVATE AND GROUP CALLING

**4** YEAR  
WARRANTY  
PROTECTION PROGRAM

**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION

ENHANCED  
**EMERGENCY  
& SAFETY  
FEATURES**

**X-SOUND+ HD**  
Enhanced Audio Clarity<sup>™</sup>





## 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

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

#### RECEIVER

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

#### TRANSMITTER

<b>Transmit Power</b>	5W
<b>FM Noise</b>	40dB@12.5KHz
<b>Intermodulation</b>	60dB
<b>Transmit Spurious Radiation</b>	-36dBm@<1GHz, -30dBm@>1GHz
<b>Adjacent Channel Power</b>	-60dB@12.5KHz
<b>Modulation Limit</b>	2.5KHz@12.5KHz
<b>Idle Slot Power</b>	-57dBm
<b>Modulation Character</b>	+1dB---(-3)dB
<b>FSK Error</b>	≤3%
<b>4FSK Digital Modulation</b>	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**  
CH3506 Kit

