



RDU2080d/RDV2080d

RDX Series™ On-Site Two-Way Business Radios

Performance You Can Count On.

The Motorola RDX Series provides your business with a competitive communications edge, enhancing employee efficiency and overall profitability. Affordable and easy to use, the RDX Series helps keep your operations on schedule, maximize job-shift productivity, enhance security and increase overall customer satisfaction. Compatible with other radios operating on the same frequency and code, the versatile RDX Series also has a full complement of accessories for customizing the radio to suit your needs.



RDU2080d



RDV2080d

Exceptional Audio Quality

2000 mW audio output, speaker magnetic field reduction, wind-noise reduction and improved RF specifications deliver superior audio quality that is 30% louder than Motorola XTN and AX models.

Rugged and Water Resistant

Meets Military 810 C,D,E and F and IP54/55 specifications for shock, rain, humidity, salt fog, vibration, sand/dust, temperature shock, high and low temperature.

Customer Programming Software (CPS)*

Allows users to perform programming functions and provides access to new features such as Reverse Burst to eliminate unwanted noise, Radio Reporting to manage cloning and radio profiles, Manager Lock, Power Select, PL/DPL Defeat and two additional Time-Out Timers.

Channel Aliasing

Provides the ability to give each channel a user-defined name.

Power and Coverage**

2 Watt UHF—Coverage of up to 250,000 sq. ft., 20 floors.
2 Watt VHF—Coverage of up to 220,000 sq. ft., 13 floors.

Front Panel Programmability

Five programmable buttons give users quick access to features such as scan list, power select, and manager lock.

Business Exclusive Frequencies

Operates on 89 UHF (expanded vs XTN and AX models) or 27 VHF business exclusive frequencies (varies by model) and features 122 codes to help ensure a clear signal.

Tri-Color LED Interface

Convenient interface allows users to identify different radio features and radio status.

Easy Cloning

Quickly copy settings with the Radio-to-Radio Cloning Cable or Multi-Unit Charger. (Both accessories sold separately.)

Flexible and Durable Battery Life Solutions

The custom RDX Series Li-Ion battery packs are designed and manufactured to ensure durability. Radios come with a standard Li-Ion battery. Accessories include a high capacity Li-Ion battery and an alkaline battery kit.

Advanced Voice Activation (VOX)

Enables convenient hands-free operation when used with optional accessories.

General Features:

- Accessory Mic Gain
- Battery Save
- Backlit Display
- 8 Channels
- Manager Lock
- USB CPS Interface
- Power Select—1/2 Watts
- Radio Mic Gain
- Scan and Scan List
- Scramble
- Time-Out Timer
- Compatible with XTN Audio Accessories
- Compatible with XTN Default Frequencies

* CPS is available as free download. Windows® XP, Windows 2000 compatible, separate USB cable required.

** Coverage will vary based on terrain, conditions and the radio model used.

General Specifications

| | RDU2080d | RDV2080d |
|---|---|--------------------|
| Frequency Range | UHF (450 to 470 MHz) | VHF (150.8 to 160) |
| Audio Output | 2000 mW | |
| Channel Capacity | 8 Channels | |
| Channel Bandwidth | 12.5/25 kHz | |
| Dimensions (H" x W" x D") w/Standard Li-Ion Battery w/High Capacity Li-Ion Battery w/Ultra High Capacity Li-Ion Battery | 4.5 x 2.2 x 1.6 inches (115.6 x 57.6 x 40.5 mm) 4.5 x 2.2 x 1.8 inches (115.6 x 57.6 x 45.1 mm) 4.5 x 2.2 x 1.8 inches (115.6 x 57.6 x 45.1 mm) | |
| Weight w/Standard Li-Ion Battery w/High Capacity Li-Ion Battery w/Ultra High Capacity Li-Ion Battery | 8.6 oz (244g) 10.3 oz (293g) 10.3 oz (293g) | |
| Average Battery Life @ 5/5/90 (with Battery Save On): w/Standard 1100 mAh Li-Ion Battery w/High Capacity 2200 mAh Li-Ion Battery w/Ultra High 2400 mAh Li-Ion Battery w/Optional Alkaline Battery Accessory | Up to 12 Hours Up to 24 Hours Up to 26 Hours Up to 26 Hours | |
| Power Supply Voltage | 7.2 Volts DC (Li-Ion Battery Pack or Alkaline) | |
| FCC Designation | AZ489FT4879 | AZ489FT3817 |
| IC Designation | 109U-89FT4879 | |

Transmitter

| | |
|--|---|
| RF Output High Low | 2 Watts 1 Watt |
| Frequency Stability | < 2.5 ppm |
| Spurs & Harmonics | < -45 dBc |
| FM Hum & Noise | -40 dB @ 12.5 kHz -45 dB @ 25.0 kHz |
| Modulation Limiting | ±2.5 kHz @ 12.5 kHz ±5.0 kHz @ 25.0 kHz |
| Adjacent Channel Power | 60 dBc |
| Radiated Spurious Emissions @ 12.5 kHz | < -20 dBm |
| Radiated Spurious Emissions @ 25 kHz | < -13 dBm |
| Audio Frequency Response (0.3 - 3.0 kHz) | +1 to -3 dB |
| Audio Distortion | < 2% |

Receiver

| | |
|--|-----------------------------------|
| Sensitivity (12 dB SINAD) | -122 dBm (0.18 µV) |
| Adjacent Channel Selectivity | 60 dB @ 12.5 kHz 65 dB @ 25.0 kHz |
| Intermodulation Rejection | 60 dB |
| Spurious Response Rejection (blocking 1 MHz) | 80 dB |
| Audio Distortion | < 5% |
| CSO Hum & Noise @ 12.5 kHz | -50 dB |
| PL Hum & Noise @ 12.5 kHz | -50 dB |
| DPL Hum & Noise @ 12.5 kHz | -45 dB |
| Radiated Spurious Emissions (< 1 GHz) | < -54 dBm |
| Radiated Spurious Emissions (> 1 GHz) | < -52 dBm |
| Audio Output @ < 5% Distortion | 1.5 W @ 8 ohms |

Military Specifications

| Standard | MIL 810 C Methods/Procedures | MIL 810 D Methods/Procedures | MIL 810 E Methods/Procedures | MIL 810 F Methods/Procedures |
|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Low Pressure | 500.1 / Procedure 1 | 500.2 / Procedure 2 | 500.3 / Procedure 2 | 500.4 / Procedure 1 |
| High Temperature | 501.1 / Procedure 1,2 | 501.2 / Procedure 1,2 | 501.3 / Procedure 1,2 | 501.4 / Procedure 1,2 |
| Low Temperature | 502.1 / Procedure 1 | 502.2 / Procedure 1,2 | 502.3 / Procedure 1,2 | 501.4 / Procedure 1,2 |
| Temperature Shock | 503.1 / Procedure 1 | 503.2 / Procedure 1 | 503.3 / Procedure 1 | 503.4 / Procedure 1 |
| Solar Radiation | 505.1 / Procedure 1 | 505.2 / Procedure 1 | 505.3 / Procedure 1 | 505.4 / Procedure 1 |
| Rain | 506.1 / Procedure 1,2 | 506.2 / Procedure 1,2 | 506.3 / Procedure 1,2 | 506.4 / Procedure 1 |
| Humidity | 507.1 / Procedure 2 | 507.2 / Procedure 2,3 | 507.3 / Procedure 2,3 | 507.4 / Procedure 3 |
| Salt Fog | 509.1 / Procedure 1 | 509.2 / Procedure 1 | 509.3 / Procedure 1 | 509.4 / Procedure 1 |
| Dust | 510.1 / Procedure 1 | 510.2 / Procedure 1 | 510.3 / Procedure 1 | 510.4 / Procedure 1 |
| Vibration | 514.2 / Procedure 8,10 | 514.3 / Procedure 1 | 514.4 / Procedure 1 | 514.5 / Procedure 1 |
| Shock | 516.2 / Procedure 1,2,5 | 516.3 / Procedure 1,4 | 516.4 / Procedure 1,4 | 516.5 / Procedure 1 |

Environmental Specifications

| | |
|-----------------------|--------------------------------------|
| Operating Temperature | -30°C to +60°C (Radio) |
| Sealing | IP55 |
| Shock & Vibration | Polycarbonate Housing passes EIA 603 |
| Dust & Humidity | Satisfied EIA 603 |

For more information, contact us today.

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.



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