



## ON-SITE TWO-WAY BUSINESS RADIOS AND ACCESSORIES

# RDX SERIES

## RUGGED, DURABLE, XTRA POWER

The RDX Series delivers just what you need to drive success – whether it's enhancing overall efficiency or reducing operational expenses. Our business-essential radios provide the perfect partnership of exceptional audio quality and durability. You can expect unstoppable performance and unbeatable dependability anywhere employees communicate – whether working outdoors at the yard or indoors on the shop floor.

### CONNECT CLEARLY

The RDX Series brings workplace noise to its knees with exceptional audio quality in the loudest environments. Designed for noisy areas, our radios are 30% louder than previous Motorola XTN and AX models as a result of 2000 mW of audio output and design enhancements.

### POWER AND COVERAGE

The 4W/5W RDX models ensure you get coverage where you need to throughout your facility. These radios cover 350,000 square feet or 30 floors.\*

### COMMUNICATE ANYWHERE

When it comes to durability, you can depend on our radios to stand up to harsh job-site conditions, and enable communication anywhere. With a heavy-duty, metal diecast chassis, the RDX Series meets Military 810 C, D, E, F standards and IP54/55 specifications for shock, rain, humidity, salt fog, vibration, sand/dust, temperature shock, plus high and low temperature.

### IMPROVE JOB PERFORMANCE

Whether you need to keep middle school teachers connected or call maintenance to make repairs, the RDX Series gives you a valuable competitive edge. Affordable and easy to use, these high-powered portable performers help your employees work more productively and your enterprise runs more profitably.

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

**DATA SHEET**  
RDX SERIES

GENERAL SPECIFICATIONS			
	RDU4100/4103**	RDU4160d/4163d**	RDV5100
Frequency Range	UHF (438 - 470 MHz)	UHF (438 - 470 MHz)	VHF (146 - 174 MHz)
Audio Output	2000 mW		
Channel Capacity	10 Channels	16 Channels	10 Channels
Channel Bandwidth	12.5 kHz		
Dimensions with Standard Li-Ion Battery with High Capacity Li-Ion Battery	4.5 in H x 2.2 in W x 1.6 in (115.6 mm H x 57.6 mm W x 40.1 mm) 4.5 in H x 2.2 in W x 1.8 in (115.6 mm H x 57.6 mm W x 45.1 mm)		
Weight with Standard Li-Ion Battery with High Capacity Li-Ion Battery	8.5 oz (241 g) 10.3 oz (293 g)		
Average Battery Life @ 5/5/90 (with Battery Save On): with Standard 1100 mAh Li-Ion Battery with High Capacity 2400 mAh Li-Ion Battery	Up to 8.5 hours Up to 18.5 hours		
Power Supply Voltage	7.2 Volts DC (Li-Ion Battery Pack or Alkaline)		

RECEIVER		TRANSMITTER	
Sensitivity (12 dB SINAD)	-122 dBm (0.18 µV)	RF Output High Low	4 Watts 2 Watts 5 Watts 2 Watts
Adjacent Channel Selectivity	60 dB @ 12.5 kHz / 65dB @ 25.0 kHz ***	Frequency Stability	< 2 ppm < 2.5 ppm
Intermodulation Rejection	60 dB	Spurs and Harmonics	< -50 dBc
Spurious Response Rejection (blocking 1 MHz)	80 dB	FM Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25.0 kHz ***
Audio Distortion	< 5%	Modulation Limiting	+2.5 kHz @ 12.5 kHz / +5.0 kHz @ 25.0 kHz ***
CSQ Hum and Noise @ 12.5 kHz	-50 dB	Adjacent Channel Power	60 dBc
PL Hum and Noise @ 12.5 kHz	-50 dB	Radiated Spurious Emissions	< -20 dBm @ 12.5 kHz / < -13 dBm @ 25 kHz ***
DPL Hum and Noise @ 12.5 kHz	-45 dB	Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB
Radiated Spurious Emissions (< 1 GHz)	< -54 dBm	Audio Distortion	< 2%
Radiated Spurious Emissions (> 1 GHz)	< -52 dBm		
Audio Output @ < 5% Distortion	1.5W @ 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 and Vibration	Polycarbonate Housing passes EIA 603
Dust and Humidity	Satisfied EIA 603

All specifications subject to change without notice. Version 1, 11/14

\*\* RDU4103 and RDU4163d are only available in Canada

\*\*\* 25.0 kHz is only available with models in Canada (RDU4103 and RDU4163d)

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