



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)

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. ©2014 Motorola, Inc. All rights reserved.

R3-4-5006

