



ON-SITE TWO-WAY BUSINESS RADIOS AND ACCESSORIES

RDX SERIES

RUGGED, DURABLE, 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

We have redesigned the RDX series to meet 70 dB Receiver performance at 12.5 KHz. This provides an 80% improvement on interference mitigation while still providing excellent radio reception and enhanced audio clarity. Designed for noisy areas, the 2000 mW speaker delivers exceptionally loud audio, even in high noise environments.

POWER AND COVERAGE

Communicate across an extended range of 350,000 sq ft and up to 30 floors*. With the 4W / 5W RDX models, your staff can get coverage throughout the facility without interruption, improving efficiency and operational performance.

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, 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 run 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	2W @ 8 ohms		
Channel Capacity	10 Channels	16 Channels	10 Channels
Channel Bandwidth	12.5 kHz / 25 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 High Capacity 2400 mAh Li-Ion Battery	Up to 15+ 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	UHF	VHF
Adjacent Channel Selectivity	70 dB @ 12.5 kHz / 75 dB @ 25.0 kHz ***		4 Watts	5 Watts
Intermodulation Rejection	70 dB	Frequency Stability	< 1.5 ppm	< 1.5 ppm
Spurious Response Rejection (blocking 1 MHz)	90 dB	Spurs and Harmonics	< -50 dBc	
Audio Distortion	< 2%	FM Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25.0 kHz ***	
CSQ Hum and Noise @ 12.5 kHz	-50 dB	Modulation Limiting	+2.5 kHz @ 12.5 kHz / +5.0 kHz @ 25.0 kHz ***	
PL Hum and Noise @ 12.5 kHz	-50 dB	Adjacent Channel Power	70 dBc	
DPL Hum and Noise @ 12.5 kHz	-45 dB	Radiated Spurious Emissions	-36 dBm f<1 GHz , -30 dBm f>1 GHz	
Radiated Spurious Emissions (< 1 GHz)	< -54 dBm	Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB	
Radiated Spurious Emissions (> 1 GHz)	< -52 dBm	Audio Distortion	< 2%	
Audio Output @ < 5% Distortion	2W @ 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
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

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

All specifications subject to change without notice.

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