



ON-SITE TWO-WAY BUSINESS RADIOS AND ACCESSORIES

RM SERIES BUILT TOUGH TO DO BUSINESS BETTER

Motorola RM Series two-way radios have the business smarts to help people work better together – coordinating resources at the construction site or monitoring production on the manufacturing line. They come with the right credentials to give business the competitive edge: exceptional quality, affordability and durability to outlast high noise, tough conditions and hard use.

WORK TOGETHER EFFICIENTLY AND SAFELY

Focus on the job with instant push-to-talk and customized channel announcements that keep your hands free. Now you'll know which channel and which department you are talking to without removing the radio from your belt. And you'll know what's coming with National Oceanic and Atmospheric Administration (NOAA) Weather Alerts (available on select models). Receive official warnings, watches and forecasts automatically to prepare your workforce.

CONNECT EASILY THROUGHOUT THE WORKPLACE

The RM Series radios make it easy to get the work done. A powerful speaker ensures clear communication, even in noisy conditions. Compact yet performance-packed, the RM Series

provides coverage up to 250,000 square feet or 20 floors.* Voice prompts enable you to program non-display radios on the go. A carry holster with swivel belt clip lets you rotate the radio to fit comfortably and move freely while picking up a tool or restocking a shelf. And the antimicrobial coating helps prevent the growth of mold and germs on the surface of the radio – as you change shifts, pass on the portable confidently.

KEEP ON TALKING IN TOUGH CONDITIONS

Military Standard 810 C, D, E, F and G plus IP54/55 may be the standards for other radio manufacturers, but they are the starting point for our RM Series. These radios undergo Motorola's unique Accelerated Life Testing (ALT). This rigorous laboratory testing simulates up to 5 years of field use. We design and engineer the RM Series right the first time to minimize costly repairs and downtime.

MOVE FROM RDX TO RM SERIES SEAMLESSLY

The HTML-based Customer Programming Software is so easy to use, it works with any computer browser. Profiles interchange with the RDX Series too. You can also quickly copy settings between the RM Series or between the RM and RDX Series portables with the radio-to-radio cloning cable or through the multi-unit charger. Plus you can re-use your RDX Series audio accessories to unleash the power of your RM Series radios.

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

PRODUCT SPEC SHEET RM SERIES RADIOS AND ACCESSORIES

	RMU2040	RMU2080	RMU2080d	RMV2080	RMU2043 (Canada Only)	RMM2050	
Frequency Range	UHF (450 to 470 MHz)		VHF (150.8 to 160		MURS (5 Freqs.) 154.57MHz / 20.0kHz 154.60MHz / 20.0kHz 151.82MHz / 11.25kHz 151.88MHz / 11.25kHz 151.94MHz / 11.25kHz		
Audio Output	4 Channels	8 Channels	8 Channels	500 mW 8 Channels	4 Channels	5 Channels	
Channel Capacity	4 Unanneis	8 Gnanneis	8 Channels	8 Channels	4 Gnanneis	5 Channels	
Channel Bandwidth	12.5kHz	12.5kHz	12.5kHz	12.5kHz	12.5kHz/25kHz	11.25 or 20.0kHz frequency dependant, see abo	
Dimensions with: Standard Li-lon Battery High Capacity Li-lon Battery	4.5 in H x 2.2 in W x 1.6 in D (115.6 mm H x 57.6 mm W x 40.5 mm D) 4.5 in H x 2.2 in W x 1.6 in D (115.6 mm H x 57.6 mm W x 40.5 mm D)						
Weight with: Standard Li-Ion Battery	8.6 oz (244g)	8.6 oz (244g)	9 oz (256g)	8.9 oz (252g)	8.6 oz (244g)	8.6 oz (244g)	
High Capacity Li-Ion Battery	8.7 oz (247g)	8.7 oz (247g)	9.1 oz (259g)	9.0 oz (255g)	8.7 oz (247g)	8.7 oz (247g)	
Average Battery Life @ 5/5/90: with Standard 2150 mAH Li-Ion Battery with High Capacity 3200 mAH Li-Ion Battery	Up to 15 hours with battery save on or up to 12 hours without battery save. Available in Q4/2013						
Battery Voltage			3	7V Li-Ion			
RECEIVER							
Sensitivity (12 dB SINAD) Adjacent Channel Selectivity Intermodulation Rejection Spurious Response Rejection (blocking 1 MHz) Audio Distortion CSQ Hum and Noise @ 12.5 kHz PL Hum and Noise @ 12.5 kHz DPL Hum and Noise @ 12.5 kHz Spurious Emissions (<1 GHz) Spurious Emissions (<1 GHz) Audio Output @ <5% Distortion		- 122 dBm (0.18 µV) 70 dB @ 12.5 kHz 75 dB @ 25 kHz 70 dB 90 dB 90 dB -5% -50 dB -50 dB -50 dB -45 dB -45 dBm -52 dBm -52 dBm 1.5W @ 8 ohms					
TRANSMITTER							
RF Output: High (conducted) Low (conducted)				2 Watts 1 Watt		2 Watts	
Frequency Stability Spurs and Harmonics		< 1.5 ppm < -45 dBc					
FM Hum and Noise Modulation Limiting Adjacent Channel Power	-36 dbm for f < 1GHz, -30 dbm for f> 1GHz ±2.5 kHz @ 12.5 kHz ±5.0 kHz @ 25.0 kHz 70 dBc						
Spurious Emissions @ 12.5 kHz Spurious Emissions @ 25 kHz Audio Frequency Response (0.3 - 3.1 Audio Distortion	0 kHz)	-36 dbm for f < 1GHz, -30 dbm for f > 1GHz -36 dbm for f < 1GHz, -30 dbm for f > 1GHz +1 to -3 dB < 2%					
MILITARY SPECIFICATIO	INS						
Standard	MIL 810 C Met Procedure			B10 E Methods/ Procedures	MIL 810 F Methods/ Procedures	MIL 810 G Methods/ Procedures	
Low Pressure	500.1 / Procedu			1.3 / Procedure 2	500.4 / Procedure 1	500.5 / Procedure 1	
High Temperature	501.1 / Procedur			3 / Procedure 1,2	501.4 / Procedure 1,2	501.5 / Procedure 1,2	

	Procedures	Procedures	Procedures	Procedures	Procedures
Low Pressure	500.1 / Procedure 1	500.2 / Procedure 2	500.3 / Procedure 2	500.4 / Procedure 1	500.5 / Procedure 1
High Temperature	501.1 / Procedure 1,2	501.2 / Procedure 1,2	501.3 / Procedure 1,2	501.4 / Procedure 1,2	501.5 / Procedure 1,2
Low Temperature	502.1 / Procedure 1	502.2 / Procedure 1,2	502.3 / Procedure 1,2	501.4 / Procedure 1,2	501.5 / Procedure 1,2
Temperature Shock	503.1 / Procedure 1	503.2 / Procedure 1	503.3 / Procedure 1	503.4 / Procedure 1	503.5 / Procedure 1
Solar Radiation	505.1 / Procedure 1	505.2 / Procedure 1	505.3 / Procedure 1	505.4 / Procedure 1	505.5 / Procedure 1
Rain	506.1 / Procedure 1,2	506.2 / Procedure 1,2	506.3 / Procedure 1,2	506.4 / Procedure 1	506.5 / Procedure 1
Humidity	507.1 / Procedure 2	507.2 / Procedure 2,3	507.3 / Procedure 2,3	507.4 / Procedure 3	507.5 / Procedure 3
Dust	510.1 / Procedure 1	510.2 / Procedure 1	510.3 / Procedure 1	510.4 / Procedure 1	510.5 / Procedure 1
Vibration	514.2 / Procedure 8,10	514.3 / Procedure 1	514.4 / Procedure 1	514.5 / Procedure 1	514.6 / Procedure 1
Shock	516.2 / Procedure 1,2,5	516.3 / Procedure 1,4	516.4 / Procedure 1,4	516.5 / Procedure 1	516.5 / Procedure 1

ENVIRONMENTAL SPECIFICATIONS

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

To learn more about the radio that's built tough to do business

better, visit www.motorolasolutions.com/rmseries

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