



MT™ 1500

Portable Analog Radio

MT 1500 PORTABLE RADIO FEATURES:

- Available Frequency
 - 136-174 MHz (5w)
 - 380-470 MHz (5w)
 - 450-520 MHz (5w)
 - 806-870 MHz (3w)
- Supports Motorola Analog Type II Trunking and Analog Conventional
- Offers key software features:
 - 48 channels
 - 3 zones
 - Wide Area SmartZone®
 - Call Alert Decode
 - Priority Scan
 - Select Radio Inhibit
 - MDC Stat Alert
- Meets Military Standards 810 C, D, E and F
- Compatible with most XTS 3000, XTS 3500, XTS 2500, HT 1000, JT 1000 and MTS 2000 portable radio accessories
- Supports enhanced audio features: noise reduction software and audio gain control
- Model 1.5 has a full bitmap display
 - 2 lines of icons
 - 4 lines of text/12 characters per line



Model 1

Model 1.5

Power and Performance That Move with the Times

Motorola's MT 1500 portable radio is a power-packed solution that is rich in features and high on quality. This durable, day-in, day-out performer offers two-way analog functionality in a compact, lightweight design that moves with the times.

Both the Model 1 and Model 1.5 (with display) are available in the 800 MHz, VHF, UHF R1 and UHF R2 bands. The MT 1500 radio offers Analog

Type II Trunking or Conventional Analog with MDC 1200 Stat Alert. Key software features expand the operation to three zones and multiple systems, including Conventional and wide area SmartZone.

Small but powerful. Simple yet solid. Feature rich and economical. Motorola's MT 1500 portable radio is the analog that stands out in the field.

SPECIFICATION SHEET

MT™1500
Portable Analog Radio

TRANSMITTER – TYPICAL PERFORMANCE SPECIFICATIONS

	800 MHz	UHF R1	VHF	UHF R2
Frequency Range	800 MHz: 806-870 MHz 806-824, 851-870	380-470 MHz	136-174 MHz	450-520 MHz
Channel Spacing	12.5 / 20 / 25 kHz	12.5/25 kHz	12.5/25 kHz	12.5/25 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Rated RF Output Power Adj*	806-870 MHz: 1 to 3 W	1 to 5 W	1 to 5 W	1 to 5 W
Frequency Stability* (-30°C to +60°C; +25°C Ref.)	±0.00015%	±0.0002%	±0.00025%	±0.0002%
Modulation Limiting*: 25 kHz channel NPSAC channel 12.5 kHz channel	±5.0 kHz ±4.0 kHz ±2.5 kHz	±5.0 kHz N/A ±2.5 kHz	±5.0 kHz N/A ±2.5 kHz	±5.0 kHz N/A ±2.5 kHz
Emissions* (Conducted & Radiated)	-75 dBc	-70 dBc	-65 dBc	-70 dBc
Audio Response* (6 dB/Octave Pre-emphasis from 300 to 3000 Hz)	+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB
FM Hum & Noise Radio*	-43 dB	-45 dB	-46 dB	-45 dB
25 kHz	-40 dB	-40 dB	-42 dB	-40 dB
12.5 kHz	2.0%	2.0%	1.0%	2.0%
Audio Distortion*				

* Measured in the analog mode per TIA/EIA 603
Measured in digital mode per TIA/EIA IS 102.CAAA
Specifications subject to change without notice.

RECEIVER – TYPICAL PERFORMANCE SPECIFICATIONS

	800 MHz	UHF R1	VHF	UHF R2
Frequency Range	800 MHz: 851-870 MHz <i>Note: Radio covers entire 700 MHz and 800 MHz frequency ranges.</i>	380-470 MHz	136-174 MHz	450-520 MHz
Channel Spacing	12.5 / 20 / 25 kHz	12.5/25 kHz	12.5 / 25 kHz	12.5/25 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Audio Output Power at Rated*	500 mW	500 mW	500 mW	500 mW
Frequency Stability* (-30°C to +60°C; 25°C Ref.)	±0.00015%	±0.0002%	±0.00025%	±0.0002%
Analog Sensitivity* 12 dB SINAD	.25 µV	.25 µV	.25 µV	.25 µV
Selectivity* 25 kHz channel 12.5 kHz channel	-72 dB -63 dB	-73 dB -63 dB	-80 dB -63 dB	-73 dB -63 dB
Intermodulation*	-74 dB	-73 dB	-78 dB	-75 dB
Spurious Rejection*	-75 dB	-75 dB	-80 dB	-75 dB
FM Hum and Noise* 25 kHz 12.5 kHz	-47 dB -40 dB	-47 dB -40 dB	-52 dB -40 dB	-50 dB -47 dB
Audio Distortion*	2.5%	2.0%	1.0%	2.0%

RADIO MODELS

	800 MHz Band (806-870 MHz)	UHF R1 (380-470 MHz)	VHF (136-174 MHz)	UHF R2 (450-520 MHz)
FLASHport Memory	H67UCC9PW5_N	H67QDC9PW5_N	H67KDC9PW5_N	H67SDC9PW5_N
Model I	8MB	8MB	8MB	8MB
Model I.5	8MB	8MB	8MB	8MB
FCC Designation	AZ489FT5804	UHF: AZ489FT4865	VHF: AZ489FT3807	AZ489FT4866
FCC Emissions Designators	11K0F3E, 16K0F3E, 8K10F1E, 8K10F1D			
Power Supply	One rechargeable nickel-cadmium, nickel-metal hydride, or lithium ion battery			
Dimensions without battery (HxWxL)	6.00" x 2.30" x 1.50"			
Weight without battery	11.0 oz			

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BATTERIES FOR MT 1500

Battery Type	Dimensions (HxWxD)	Weight	Battery Part Numbers	mAH	Duty Cycle
NiCD	4.86" x 2.37" x .968"	8.85 oz	NTN9815	1525	5-5-90 / 8 hr.
NiCD FM	4.86" x 2.37" x .968"	8.85 oz	NTN9816	1525	5-5-90 / 8 hr.
IMPRES™ NiMH	4.86" x 2.37" x .968"	9.63 oz	NTN9858	2100	5-5-90 / 10 hr.
IMPRES NiMH FM	4.86" x 2.37" x .968"	9.63 oz	NTN9857	2000	5-5-90 / 10 hr.

PORTABLE MILITARY STANDARDS 810 C, D, E & F

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II
High temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	I*	503.2	I/A1C3	503.3	I/A1C3	503.4	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	I*
Salt Fog	509.1	I*	509.2	I*	509.3	I*	509.4	I*
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24
Shock	516.2	I, II	516.3	I, IV	516.4	I/IV	516.5	I, IV

* Military Standards specify a single procedure for this test.

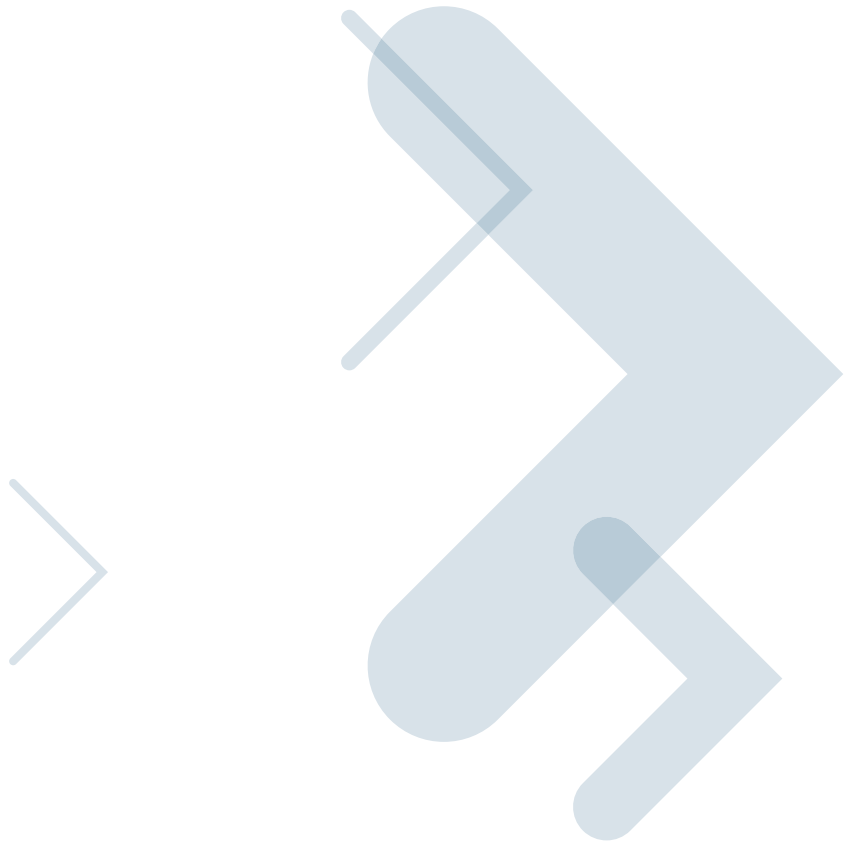
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Humidity	Per MIL-STD
ESD	IEC 801-2KV
Water & Dust Intrusion	IP54, MIL-STD

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