

# specifications

GENERAL	LOWBAND	VHF/UHF		
HT1250 Channel Capacity:	128	128		
Power Supply:	Rechargeable battery 7.5V	Rechargeable battery 7.5V		
Dimensions:	With NiMH High Capacity Battery: 5.40 x 2.26 x 1.50 in (137 x 57.5 x 37.5 mm) With IMPRES NiMH/NiMH FM Battery: 5.40 x 2.26 x 1.60 in (137 x 57.5 x 40 mm) With IMPRES Li-ion Battery: 5.40 x 2.26 x 1.30 in (137 x 57.5 x 40 mm)			
Weight:	With NiMH High Capacity Battery: 15.0 oz. (420g) With IMPRES NiMH/NiMH FM Battery: 17.5 oz. (488g) With IMPRES Li-ion Battery: 12.8 oz. (358g)			
Average Battery Life @ 5/5/90 Duty Cycle*:	Low Power	High Power	Low Power	High Power
With NiMH High Capacity Battery:	11 hrs	8 hrs	11 hrs	8 hrs
With IMPRES NiMH Battery:	17 hrs	11 hrs	17 hrs	13 hrs
With IMPRES NiMH FM Battery:	16 hrs	10 hrs	16 hrs	13 hrs
With IMPRES Li-ion Battery:	18 hrs	11 hrs	18 hrs	14 hrs
FCC Description:	AZ489FT3794 (136-174 MHz), AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz), AZ489FT1625 (29.7-42, 42-50 MHz)			

RECEIVER	LOWBAND	VHF	UHF
Frequencies:	29.7-42, 35-50 MHz	136-174 MHz	403-470, 450-512 MHz
Hum and Noise:	-45dB @ 20/25kHz	-45dB @ 12.5kHz, -50dB @ 25kHz	-45dB @ 12.5kHz, -50dB @ 25kHz
Sensitivity (12dB SINAD): EIA	.30 µV	.25 µV	.25 µV
Sensitivity (20dB SINAD): ETS	.50 µV	.50 µV	.50 µV
HT1250 Channel Spacing:	20/25kHz	12.5/15/20/25/30kHz	12.5/15/20/25/30kHz
Intermodulation:	70dB	70dB	70dB
Adjacent Channel Selectivity:	60dB @ 12.5kHz/70dB @ 25kHz	60dB @ 12.5kHz/70dB @ 25kHz	60dB @ 12.5kHz/70dB @ 25kHz
Spurious Rejection:	70dB	70dB	70dB
Rated Audio:	0.5 W	0.5 W	0.5 W
Audio Distortion @ Rated Audio:	3% typical	3% typical	3% typical
Audio Response: (300 - 3000 Hz)	+1 to -3dB	+1 to -3dB	+1 to -3dB
Conducted Spurious Emission FCC Part 15:	-57dBm < 1 GHz, -47dBm > 1 GHz	-57dBm < 1 GHz, -47dBm > 1 GHz	-57dBm < 1 GHz, -47dBm > 1 GHz

TRANSMITTER	LOWBAND	VHF	UHF
Frequencies:	29.7-42, 35-50 MHz	136-174 MHz	403-470, 450-512 MHz
Power Output:	1-6 W	1-5 W	1-4 W
Frequency Stability: (-30°C to +60°C, +25°Ref.)	±10 ppm	±5 ppm @ 25kHz, ±2.5 ppm @ 12.5kHz	±5 ppm @ 25kHz, ±2.5 ppm @ 12.5kHz
Modulation Limiting:	+5.0 @ 20kHz	±2.5 @ 12.5kHz/±4.0 @ 20kHz/+5.0 @ 25kHz	±2.5 @ 12.5kHz/±4.0 @ 20kHz/+5.0 @ 25kHz
Spurs/Harmonics:	-36dBm < 1 GHz, -30dBm > 1 GHz	-36dBm < 1 GHz, -30dBm > 1 GHz	-36dBm < 1 GHz, -30dBm > 1 GHz
Channel Spacing:	20/25kHz	12.5/20/25kHz	12.5/20/25kHz
FM Hum & Noise:	-40dB typical	-40dB typical	-40dB typical
Adjacent Channel Power:	-60dB @ 12.5, -70dB @ 25kHz	-60dB @ 12.5, -70dB @ 25kHz	-60dB @ 12.5, -70dB @ 25kHz
Audio Response: (300 - 3000 Hz)	+1 to -3dB	+1 to -3dB	+1 to -3dB
Audio Distortion:	3% typical	3% typical	3% typical
FM Modulation:	25kHz	12.5kHz 25/30kHz	12.5kHz 25kHz
	16KOF3E	11KOF3E 16KOF3E	11KOF3E 16KOF3E

## PORTABLE MILITARY STANDARDS 810 C, D, & E

	MIL-STD 810C	MIL-STD 810D	MIL-STD 810E
	Method: Proc/Cat	Method: Proc/Cat	Method: Proc/Cat
Low Pressure:	500.1: I	500.2: II	500.3: II
High Temp:	501.1: I, II	501.2: I, II	501.3: I, II
Low Temp:	502.1: II	502.2: I, II	502.3: I, II
Temp Shock:	503.1: I	503.2: I	503.3: I
Solar Radiation:	505.1: I	505.2: I	505.3: I
Rain:	506.1: I, II	506.2: I, II	506.3: I, II
Humidity:	507.1: II	507.2: II, III	507.3: II, III
Salt Fog:	509.1: I	509.2: I	509.3: I
Dust:	510.1: I	510.2: I	510.3: I
Vibration:	514.2: VIII, X	514.3: I	514.4: I
Shock:	516.2: I, II, V	516.3: I, IV	516.4: I, IV

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	-30 C to +60° C
Storage Temperature:	-55 C to +85° C
Humidity:	95% RH @ 8 Hr.
ESD:	IEC 801-2 KV
Water Intrusion:	IP54

## FACTORY MUTUAL APPROVALS

The HT Series is Factory Mutual approved and Canadian Standard Association approved as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option, and battery.



## Radio Communications

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# HT1250™ Portable Radio

Available in Lowband, VHF, and UHF  
Operates on Conventional Systems



The unique versatility of the HT1250 allows its customization to change with your needs.

## HT1250 Powerful and Adaptable

- *Small, Lightweight and Durable*
- *Available in Limited and Full Keypad Models*
- *12.5/25kHz Switchable Channel Spacing*
- *Clock with Alarm*
- *Battery Status Indicator*
- *Telephone Interconnect Capable*
- *Option Board Capabilities*

**X-Pand Voice Compression**  
Crisper, clearer audio quality

**6 Programmable Front and Side Buttons**  
Easy access to favorite features

**Adjustable Power Levels**  
Saves battery life

**Dual Priority Scan**  
Frequently scan higher priority channels

**Repeater Talkaround**  
Unit-to-unit communications bypassing the repeater

**Telephone Interconnect Capable**  
Make and receive phone calls with the radio

**Front Panel Programmable Phone List**  
Easily store and retrieve favorite phone numbers



**128 Channels (16 Zones)**

**Programmable Emergency Button**  
Sound alarm or alert dispatcher in an emergency situation

**Escalart™ Call Features**  
Ensures important signals are heard

**Internal VOX**  
Hands-free operation with headset

**14-Character Alphanumeric Display with User-Friendly Icons**  
Information is clear and easy to read

**Control Buttons**  
Menu, navigation, and exit functions

**Quik Call II™ and MDC1200 Signaling**  
Send and receive information in a variety of ways, including:

- **Push-to-Talk ID (Encode/Decode)**  
Identify your outgoing calls and incoming callers

- **Selective Call (Encode/Decode)**  
Send and receive a call from a specific group or individual

- **Call Alert (Encode/Decode)**  
Inform unavailable users that you're trying to reach them, and receive alerts of incoming calls when you're a short distance away from your radio

- **Radio Check (Encode/Decode)**  
Learn whether another user's radio is activated, and let others check your radio status

- **Emergency (Encode)**  
Sounds an alarm or alerts dispatcher in urgent situations

- **Selective Radio Inhibit (Decode)**  
Allows system owner to disable stolen or missing radios

## HT1250™ The Versatile Radio

The HT1250™ portable radio is an essential tool for growing organizations because of its unique versatility. The radio offers a full menu of advanced signaling features, including paging or calling selective radios or groups. Users can store information such as phone numbers, call lists and radio IDs for easy access. And with Motorola's unique X-Pand™ technology, audio clarity is superb—even in noisy surroundings. The large LCD display is extremely helpful in large communication networks and critical situations. The radio of choice is the HT1250™ portable. It's the radio that changes with your needs.