

# HT1250-LS+™ Portable Radio

Available in VHF, UHF, 200 MHz and 700 MHz

Operates on Conventional, LTR® and PassPort® Systems



Wider calling range, faster channel access and greater privacy for users with growing communication needs.

## PassPort Selective Call/Call Alert\*

Lets you send or receive a private call or page from a specific user

## Home Channel Revert

Automatic, one-button return to a preferred talkgroup or channel

## User-Defined Lists

Change scan, phone, and call lists on the fly

## Voice Storage

Record important messages or personal memos

## Roam Request\*

Optional manual initiation of roaming function

## Roam Lock\*

Optional manual lock of the radio onto a site

## 7 Programmable Buttons

Including Emergency Button

## 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

## Adjustable Power Levels

Saves battery life

## Dual Priority Scan

Frequently scans higher priority channels

## Selectable Scanning

Scan only select transmissions

## Escalert™ Call Features

Ensures important signals are heard



16 or 32 Conventional Channels

15 Trunked Zones with up to 16 Talkgroups per Zone (LTR and PassPort)

Emergency Button (Conventional Mode only)  
Sound alarm or alert dispatcher in an emergency situation

14-Character Alphanumeric Display with User-Friendly Icons

Control Buttons  
Menu, navigation, and exit functions

Internal VOX  
Hands-free operation with headset

X-Pand™ Voice Compression  
Crisper, clearer audio quality

MDC1200 Signaling (Encode/Decode) Features on Conventional and LTR Zones\*

- Caller ID – Identifies incoming callers
- Selective Call – Lets you call a specific group or individual
- Call Alert – Notifies unavailable users that you're trying to reach them
- Radio Check – Tells you whether another user's radio is activated
- Message – Allows you to send and receive pre-programmed messages

Quik Call II™ on Conventional Zones\*  
Send and receive information via tone or digital signals.

\*Only available on certain models. See Dealer for availability.

## HT1250-LS+ Smart and Versatile

- Small, Lightweight and Durable
- Available in Limited and Full Keypad Models
- 12.5/20/25kHz Switchable Channel Spacing
- Clock with Alarm
- Option Board Capabilities
- Wide Area Coverage, Seamless Roaming – Automatic switching between networked PassPort sites
- Exceptional Audio Quality – Received Signal Strength Indicator (RSSI) communication technology utilizes one of the strongest signals available
- Superior System Access – Automatic site registration/deregistration reduces busy channels and enhances efficiency
- Efficient Channel Expansion – Direct frequency assignment allows you to add channels and sites over the air
- Electronic Serial Number Protection – Keeps system resources available by helping to prevent unauthorized radio cloning
- Increased Flexibility – Access privileges by Mobile Identification Number\*\* (MIN) allows radios to be directed to specific sites or talkgroups

\*\*Optional PassPort feature

## HT1250-LS+™ The Intelligent Radio

A unique combination of high-level features plus the exceptional versatility of trunking make the HT1250-LS+ portable radio a smart choice for your business communications. The HT1250-LS+ incorporates LTR® trunking capabilities – providing a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity. The HT1250-LS+ also offers innovative PassPort® trunking. Ideal for users with growing communications needs, PassPort includes all the advantages of LTR® trunking and much more.

# specifications

GENERAL	VHF	200MHZ	UHF	700MHZ
Channel Capacity				
Trunking Zone Capacity:	15	15	15	15
Trunking Talkgroup Capacity: (per zone)	16	16	16	16
Conventional Channel Capacity:	16 or 32*	16	16 or 32*	16
Power Supply:	Rechargeable battery 7.5V		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 37.5mm)			
With IMPRES NiMH/NiMH FM/Li-ion Battery:	5.40 x 2.26 x 1.60 in (137 x 57.5 x 40mm)			
Weight: With NiMH High Capacity Battery:	15.0 oz. (420g)	15.0 oz. (420g)	15.0 oz. (420g)	15.0 oz. (420g)
With IMPRES NiMH Battery:	17.5 oz. (488g)	17.5 oz. (488g)	17.5 oz. (488g)	17.5 oz. (488g)
With IMPRES NiMH FM Battery:	17.5 oz. (488g)	17.5 oz. (488g)	17.5 oz. (488g)	17.5 oz. (488g)
With IMPRES Li-ion Battery:	12.8 oz. (358g)	12.8 oz. (358g)	12.8 oz. (358g)	12.8 oz. (358g)
Average Battery Life @ 5/5/90 Duty Cycle*:	Low Power High Power	Low Power High Power	Low Power High Power	Low Power High Power
With NiMH High Capacity Battery:	11 hrs 8 hrs	11 hrs 8 hrs	11 hrs 8 hrs	11 hrs 8 hrs
With IMPRES NiMH Battery:	17 hrs 11 hrs	17 hrs 11 hrs	17 hrs 13 hrs	17 hrs 13 hrs
With IMPRES NiMH FM Battery:	16 hrs 10 hrs	16 hrs 10 hrs	16 hrs 13 hrs	16 hrs 13 hrs
With IMPRES Li-ion Battery:	18 hrs 11 hrs	18 hrs 11 hrs	18 hrs 14 hrs	18 hrs 14 hrs
FCC Description:	AZ489FT3794 (136-174 MHz) ABZ99FT3080 (217-218/219-222 MHz) AZ489FT4826 (403-470 MHz) AZ489FT4834 (450-512 MHz) ABZ99FT5000 (746-747/762-764/776-777/792-794 MHz)			

RECEIVER	VHF	200MHZ	UHF	700MHZ
Frequencies:	136-174 MHz	217-218, 219-220, 220-222 MHz	403-470, 450-512 MHz	746-747, 762-764 MHz
Hum and Noise:	-45dB @12.5kHz, -50dB @25kHz	-40dB	-45dB @ 12.5kHz, -50dB @ 25kHz	-40dB
Sensitivity: (12dB SINAD) EIA	.25 µV	0.3 µV (0.25 µV typical)	.25 µV	0.35 µV (0.3 µV typical)
Sensitivity: (20dB SINAD) ETS	.50 µV		.50 µV	
Channel Spacing:	12.5/20/25 kHz	12.5 kHz	12.5/20/25 kHz	12.5 kHz
Intermodulation:	70dB	70dB	70dB	70dB
Adjacent Channel Selectivity: (70dB @ 25 kHz)	60dB @12.5 kHz/ 40dB(TIA 603-A)	60dB (TIA 603)	60dB @ 12.5 kHz/ 70dB @ 25 kHz	60dB (TIA 603) 40dB (TIA 603-A)
Spurious Rejection:	70dB	70dB	70dB	70dB
Rated Audio:	0.5 W	0.5 W	0.5 W	0.5 W
Audio Distortion @ Rated Audio:	3% typical	3% typical	3% typical	3% typical
Audio Response:	+1 to -3dB	+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	-57dBm < 1 GHz -47dBm > 1 GHz

TRANSMITTER	VHF	200MHZ	UHF	700MHZ
Frequencies:	136-174 MHz	217-218 MHz (Talkaround) 219-220 MHz 220-221 MHz (Talkaround) 221-222 MHz	403-470 MHz 450-512 MHz	776-777 MHz 792-794 MHz 746-747 MHz (Talkaround) 762-764 MHz (Talkaround)
Power Output:	1-5 W	1 W or 5 W	1-4 W	1 W or 2.5 W
Frequency Stability: (-30° C to +60°C, +25° Ref.)	± 5 ppm @ 25kHz ± 2.5 ppm @ 12.5kHz	± 2.5 ppm	± 5 ppm @ 25kHz ± 2.5 ppm @ 12.5kHz	± 1.5 ppm
Modulation Limiting:	± 2.5 @ 12.5kHz ± 4.0 @ 20kHz ± 5.0 @ 25kHz	± 2.5kHz	± 2.5 @ 12.5kHz ± 4.0 @ 20kHz ± 5.0 @ 25kHz	± 2.5kHz
Conducted and Radiated Emissions:	-36dBm < 1GHz, -30dBm >1GHz	-16dBm	-36dBm < 1GHz, -30dBm > 1GHz	-16dBm
Channel Spacing:	12.5/20/25kHz	12.5kHz	12.5/20/25kHz	12.5kHz
FM Hum & Noise:	-40dB typical	-40dB typical	-40dB typical	-40dB typical
Adjacent Channel Power:	-60dB @ 12.5, -70dB @ 25kHz	-60dB	-60dB @ 12.5, -70dB @ 25kHz	-60dB
Audio Response:	+1 to -3dB	+1 to -3dB	+1 to -3dB	+1 to -3dB
Audio Distortion:	3% typical	3% typical	3% typical	3% typical
FM Modulation:	11K0F3E (12.5kHz) 16K0F3E (25kHz)	11K0F3E	11K0F3E (12.5kHz) 16K0F3E (25kHz)	11K0F3E
Adjacent Channel Coupled Power:	N/A	N/A	N/A	Complies with 47 CFR 27.53 (d) (1)

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

	MIL-STD 810C Method: Proc/Cat	MIL-STD 810D Method: Proc/Cat	MIL-STD 810E Method: Proc/Cat
Low Pressure:	500.1: I	500.2: II	500.3: II
High Temperature:	501.1: I, II	501.2: I, II	501.3: I, II
Low Temperature:	502.1: II	502.2: I, II	502.3: I, II
Temperature Shock:	503.1: I	503.2: I	503.3: I
Solar Radiation:	505.1: I	505.2: I, II	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	516.4: I, IV

## Environmental Specifications

Operating Temperature:	-30 to +60° C
Storage Temperature:	-55 to +85° C
Humidity:	95% RH @ 8 Hr.
ESD:	IEC 801-2 KV
Water Intrusion:	IPX4

\* Only available on certain models. Check with your Motorola Authorized Dealer for availability.

## 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.



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MD-EU-HT1250LS+