

specifications

GENERAL	VHF	UHF	200 MHz	700 MHz
Channel Capacity:	Trunking Zone Capacity 15 Trunking Talkgroup Capacity (per zone) 16 Conventional Channel Capacity 16 or 160	15 16 16 or 160	15 16 16	15 16 16
Typical RF Output:	1-25W (Low Power) 25-45W (High Power)	25-40W (High Power)	1-25W	1-15W
Frequencies:	136-174 MHz	403-470, 450-512 MHz	217-218 (Talkaround) 219-220 MHz 220-221 MHz (Talkaround) 221-222 MHz	776-777 792-794 MHz 746-747 MHz (Talkaround) 762-764 MHz (Talkaround)
Dimensions: (H x W x D)	2.34 x 7.05 x 7.32 inch (60 x 179 x 186 mm) - VHF/UHF Low Power 2.34 x 7.05 x 7.79 inch (60 x 179 x 198 mm) - VHF/UHF High Power			
Weight:	3.15 lbs (1.43 Kg) - VHF/UHF Low Power 3.5 lbs (1.59 Kg) - VHF/UHF High Power			
Current Drain:	Standby Rx @ rated, external 8 ohm speaker Transmit	.3A 1.5A 7A @ 25W, 13.5 A @ 45W	.3A 1.5A 8A @ 25W, 13.5 A @ 40W	.3A 1.5A 7A @ 25W
FCC Description: For all frequencies	AZ492FT3796 (25W, 136-174 MHz), AZ492FT3795 (45W, 136-174 MHz), ABZ99FT3081 (25W, 217-218/219-222 MHz), AZ492FT4835 (25W, 403-470 MHz) AZ492FT4830 (40W, 403-470 MHz), AZ492FT4829 (25W, 450-512 MHz), AZ492FT4836 (40W, 450-512 MHz), ABZ99FT5001 (15W, 746-747/762-764/776-777/792-794 MHz)			

TRANSMITTER

Power Output:	1-25 or 25-45W	1-25 or 25-40W	1-25W	1-15W
Frequency Stability: (-30° C to +60° C, +25° Ref.)	±2.5 ppm	±5 ppm @ 25 kHz, ±2.5 ppm @ 12.5 kHz	±2.5 ppm	±1.5 ppm
Modulation Limiting:	±2.5 @ 12.5, ±4.0 @ 20, ±5.0 @ 25 kHz	±2.5 @ 12.5, ±4.0 @ 20, ±5.0 @ 25 kHz	±2.5 kHz	±2.5 kHz
Conducted/Radiated Emissions:	-36dBm < 1 GHz and -30dBm > 1 GHz	-36dBm < 1 GHz and -30dBm > 1 GHz	-16dBm	-16dBm (except 40dBm from 1559)
Channel Spacing:	12.5/20/25 kHz	12.5/20/25 kHz	12.5 kHz	12.5 kHz
FM Hum and Noise:	-40dB @ 12.5 kHz, -45dB 25 kHz	-40dB Typical	-40dB Typical	-40dB Typical
Adjacent Channel Power:	-60dB @ 12.5 kHz, -70dB @ 25 kHz	-60dB @ 12.5 kHz, -70dB @ 25 kHz	-60dB	-60dB
Audio Response:	TIA 603 & ETS300 & CEPT 84 Annex 2	TIA 603 & ETS300 & CEPT 84 Annex 2	+1 to -3dB	+1 to -3dB
Audio Distortion:	3% Typical	3% Typical	3% Typical	3% Typical
FM Modulation Designator:	11K0F3E (12.5 kHz), 16K0F3E (25 kHz)	11K0F3E (12.5 kHz), 16K0F3E (25 kHz)	11K0F3E	11K0F3E
Adjacent Channel Coupled Power:	N/A	N/A	N/A	Complies with 47 CFR 27.53 (d) (1)

RECEIVER

Frequencies:	136-174 MHz	403-470, 450-512 MHz	217-218, 219-220, 220-222 MHz	746-747, 762-764 MHz
Channel Spacing:	12.5/20/25 kHz	12.5/20/25 kHz	12.5 kHz	12.5 kHz
Frequency Stability: (-30° C to +60° C, +25° Ref.)	±2.5 ppm	±2.5 ppm	±2.5 ppm	±1.5 ppm
Sensitivity: (12dB SINAD) EIA	0.3 µV, (0.23 µV Typical)	0.3 µV, (0.23 µV Typical)	0.3 µV, (0.23 µV Typical)	0.3 µV, (0.23 µV Typical)
Intermodulation:	75dB @ 12.5 kHz, 78dB @ 25 kHz	75dB @ 12.5 kHz, 78dB @ 25 kHz	75dB	75dB
Adjacent Channel Selectivity:	65dB @ 12.5 kHz, 80dB @ 25 kHz	65dB @ 12.5 kHz, 75dB @ 25 kHz	65dB (TIA 603), 40dB (TIA 603-A)	65dB (TIA 603), 40dB (TIA 603-A)
Spurious Rejection:	75dB @ 12.5 kHz, 80dB @ 25 kHz	70dB @ 12.5 kHz, 75dB @ 25 kHz	75dB	75dB
Rated Audio:	3W Internal	3W Internal	3W Internal	3W Internal
External with 4 ohm speaker	13W External	13W External	13W External	13W External
Audio Distortion @ Rated Audio:	3% Typical	3% Typical	3% Typical	3% Typical
Hum and Noise:	-40dB 12.5 kHz, -45dB 25 kHz	-40dB 12.5 kHz, -45dB 25 kHz	-40dB 12.5 kHz	-40dB 12.5 kHz
Audio Response:	TIA603 & ETS300 & CEPT 84 Annex 2	TIA603 & ETS300 & CEPT 84 Annex 2	+1 to -3dB	+1 to -3dB
Conducted Spurious Emission:	-57dBm < 1 GHz	-57dBm < 1 GHz	-57dBm < 1 GHz	-57dBm < 1 GHz
FCC Part 15	-47dBm > 1 GHz	-47dBm > 1 GHz	-47dBm > 1 GHz	-47dBm > 1 GHz

ENVIRONMENTAL

Operating Temperature:	-30° to +60° C	-30° to +60° C	-30° to +60° C	-30° to +60° C
Storage Temperature:	-55° to +85° C	-55° to +85° C	-55° to +85° C	-55° to +85° C
Thermal Shock:	-40° to +85° C	-40° to +85° C	-40° to +85° C	-40° to +85° C
Humidity:	95% RH @ 8 Hr.	95% RH @ 8 Hr.	95% RH @ 8 Hr.	95% RH @ 8 Hr.
ESD:	IEC 801-2 KV	IEC 801-2 KV	IEC 801-2 KV	IEC 801-2 KV
Water Intrusion:	IP54	P54	P54	P54
Packing Test:	Impact Test	Impact Test	Impact Test	Impact Test

PORTABLE MILITARY STANDARDS 810 C, D, & E*

Applicable MIL-STD	810C	810D	810E
	Methods/Procedures	Methods/Procedures	Methods/Procedures
Low Pressure:	500.1/1	500.2/2	500.3/2
High Temperature:	501.1/1, 2	501.2/1, 2	501.3/1, 2
Low Temperature:	502.1/2	502.2/1, 2	502.3/1, 2
Temperature Shock:	503.1/1	503.2/1	503.3/1
Solar Radiation:	505.1/1	505.2/1	505.3/1
Rain:	506.1/2	506.2/2	506.3/2
Humidity:	507.1/2	507.2/2, 3	507.3/3
Salt Fog:	509.1/1	509.2/1	509.3/1
Dust:	510.1/1	510.2/1	510.3/1
Vibration:	514.2/8, 10	514.3/1	514.4/1
Shock:	516.2/1, 5	516.3/1	516.4/1

* MIL Standards - The CDM mobile radio is designed to meet most requirements for MIL STD 810 C, D, and E.



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MD-CDM1550LS-01A
10/06

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Motorola CDM1550-LS+™

The Intelligent Radio



The CDM1550-LS+ offers PassPort® trunking, ideal for growing communication needs.

Quik Call II™ and MDC 1200 Signaling (Encode/Decode)

Send and receive information via tone or digital signals

Multicolored LED Indicators

Visible feedback of transmit, scan, and monitor status

16 or 160 Channels

14-Character Alphanumeric Display

Information is clear and easy to read

Multi-Language Capabilities

Programming in English, Spanish, French, or Portuguese

RSSI Indicator

Displays signal strength level

Caller ID

Identifies incoming callers

X-Pand™ Audio Enhancement

Crisp, clear audio quality



4 Customizable Function Buttons (P1, P2, P3, P4)

Program for instant access to your favorite features

Selective Call

Lets you call a specific group or individual

Dual Priority Scan

Frequently scans higher priority channels

Conventional Talkaround

Unit-to-unit communication, bypassing repeater

Emergency Signaling

Sends help signal

Horn and Lights Activation

Notifies user of call alerts/selective calls when away from vehicle

Emergency Signaling

Discreet help signal

Call Alert

Notifies users that you're trying to reach them

Selective Call

Lets you call a specific group or individual

DTMF Encode/Decode

Sends and receives pages and telephone calls

Optional Voice Storage

Records important messages or memos

Additional Features

- 16 or 160 Channels*
15 PassPort® and/or LTR® Zones (16 Talkgroups each)
- Large Control Buttons
- User-Defined Lists
- PassPort® Selective Call/Call Alert
- Quik-Call II™ on Conventional Zones
- MDC 1200 Signaling (Encode/Decode) Features on Conventional and LTR® Zones Including:
 - Caller ID - Identifies incoming calls
 - Selective Call - Group or individual
 - Call Alert - For incoming calls
 - Radio Check - Identifies active radio
 - Message - Send/receive messages
- System/All Group/Auto Group Selective Scanning
- Home Channel Revert
- Telephone Interconnect Capability
- PTT-ID Aliasing
Available in PassPort® and LTR®
- NTIA Band Support
9 MHz Rx/Tx Spacing in NTIA Band
- Roam Request
- Roam Lock
- 12.5/25 kHz switchable channel spacing
- Remote Mountable Control Head
- Data Capable in PassPort® Mode with CES Equipment
- Operates on Conventional, LTR® and PassPort® Systems

The Intelligent Radio – So Advanced, It Practically Thinks for You

High-performing features combined with versatile trunking capabilities make the CDM1550-LS+ mobile radio the smart choice to keep mobile work teams performing their best. Motorola's flexible X-Pand™ audio enhancement technology and a powerful front-projecting speaker ensure clear, crisp sound, even in noisy environments. The CDM1550-LS+ with LTR® trunking capabilities offers you a wider calling range, faster channel access, enhanced privacy, and higher user and talkgroup capacity. The CDM1550-LS+ also offers PassPort® trunking. Ideal for users with growing communication needs, PassPort® includes all the advantages of LTR® trunking plus wider area coverage, seamless roaming, exceptional audio quality, superb system access, efficient channel expansion and electronic serial number production.

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