

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

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

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.

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 Methods/Procedures	810D Methods/Procedures	810E 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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