



# CDM1550-LS+™

Available in VHF, UHF, 200 MHz and 700 MHz

Operates on Conventional, LTR® and PassPort® Systems

## Features include:

- 16 or 160 Channels
- 15 PassPort and/or LTR Zones (16 Talkgroups each)
- Dual Priority Scan in Conventional Mode  
Frequently scans higher priority channels
- Conventional Talkaround  
Unit-to-unit communication, bypassing repeater
- Quik-Call II™ on Conventional Zones
- Quik-Call II™ and MDC 1200 Signaling (Encode/Decode)  
Send and receive information via tone or digital signals
- MDC 1200 Signaling (Encode/Decode)  
Features on Conventional and LTR Zones Including:
  - Caller ID: Identifies incoming calls
  - Selective Call: Let's you call a specific group or individual
  - Call Alert: Notifies users that you're trying to reach them
  - Radio Check: Identifies active radio
  - Message: Send/receive messages
- DTMF Encode/Decode  
Sends and receives pages and telephone calls
- Telephone Interconnect Capability
- PassPort Selective Call/Call Alert
- System/All Group/Auto Group Selective Scanning
- PTT-ID Aliasing Available in PassPort and LTR
- NTIA Band Support: 9 MHz Rx/Tx Spacing in NTIA Band
- Roam Request
- Roam Lock
- Home Channel Revert
- User-Defined Lists
- X-Pand™ Audio Enhancement  
Crisp, clear audio quality
- Emergency Signaling  
Sends discreet help signal
- Horn and Lights Activation  
Notifies user of call alerts/selective calls when away from vehicle
- Optional Voice Storage  
Records important messages or memos
- Multi-Language Capabilities  
Programming in English, Spanish, French, or Portuguese
- RSSI Indicator  
Displays signal strength level
- Remote Mountable Control Head



## The Intelligent Radio—so advanced, it practically thinks for you

High-performing features combined with versatile trunking capabilities make the CDM1550-LS+ two-way radio the smart choice to keep mobile work teams performing their best, especially those in transportation. With LTR trunking capabilities you experience 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.

**SPECIFICATION SHEET**

GENERAL SPECIFICATIONS				
	VHF	UHF	200 MHz	700 MHz
Channel Capacity: Trunking Zone	15	15	15	15
Trunking Talkgroup (per zone)	16	16	16	16
Conventional Channel	16 or 160	16 or 160	16	16
Typical RF Output:	1-25W - Low 25-45W - High	1-25W - Low 25-40W - High	1-25W	1-15W
Frequencies:	136-174 MHz	403-470 MHz 450-512 MHz	217-218 MHz (Talkaround) 219-220 MHz 220-221 MHz (Talkaround) 221-222 MHz	776-777 MHz 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, 200 MHz 2.34 x 7.05 x 7.79 inch (60 x 179 x 198 mm) - VHF/UHF High Power, 700 MHz			
Weight:	3.15 lbs (1.43 Kg) - VHF/UHF Low Power, 200 MHz 3.5 lbs (1.59 Kg) - VHF/UHF High Power, 700 MHz			
Current Drain:	Standby Rx @ rated, external 8 ohm speaker Transmit	.3A 1.5A 7A @ 25W 13.5A @ 45W	.3A 1.5A 8A @ 25W 13.5A @ 40W	.3A 1.5A 7A @ 25W
FCC Description:	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 SPECIFICATIONS				
	VHF	UHF	200 MHz	700 MHz
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 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz*	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz*	±2.5 kHz	±2.5 kHz
Conducted/Radiated Emissions:	-36dBm < 1 GHz -30dBm > 1 GHz	-36dBm < 1 GHz -30dBm > 1 GHz	-16dBm	-16dBm (except 40dBm from 1559 to 1610 MHz)
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 and ETS300 and CEPT 84 Annex 2	TIA 603 and ETS300 and 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 SPECIFICATIONS				
	VHF	UHF	200 MHz	700 MHz
Frequencies:	136-174 MHz	403-470 MHz 450-512 MHz	217-218 MHz 219-220 MHz, 220-222 MHz	746-747 MHz 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 typical)	0.3 µV (0.23 typical)	0.30 µV (0.25 typical)	0.35 µV (0.23 typical)
Intermodulation:	75dB @ 12.5 kHz 78dB @ 25 kHz*	75dB @ 12.5 kHz 75dB @ 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 13W External	3W Internal 13W External	3W Internal 13W External	3W Internal 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	-40dB
Audio Response:	TIA603 and ETS300 and CEPT 84 Annex 2	TIA603 and ETS3000 and CEPT 84 Annex 2	+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

\*Availability of new 25 kHz equipment may be restricted due to Narrowbanding regulations in your country. Please check with your frequency coordinator and/or regulatory agency for the latest information on Narrowbanding.

PORTABLE MILITARY STANDARDS			
Applicable MIL-STD	810C	810D	810E
	Method/Procedure	Method/Procedure	Method/Procedure
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

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



**MOTOROLA**

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their registered owners. © Motorola, Inc. 2010.