MOTOROLA

CDM1550™

Available in Low Band
Operates on Conventional Systems

Features include:

- 128 Channels
- Dual Priority Scan
  Frequently scans higher priority channels
- Repeater Talkaround
  Unit-to-unit communication, bypassing repeater
- Quik-Call II™ and MDC 1200 Signaling (Encode/Decode)
  Send and receive information via tone or digital signals
  Features Include:
  - **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
  Sends pages and telephone calls
- Status Message:
  Exchanges text messages between base and user
- 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 Sophisticated Radio—for advanced needs

Security and utilities teams will appreciate the CDM1550, a top-tier radio that is fully equipped to handle the advanced communication needs of organizations requiring high levels of flexibility and functionality. Motorola's flexible X-Pand™ audio feature and a powerful front-projecting speaker ensure clear, crisp sound, even in noisy environments. The large 14-character alphanumeric display with user-friendly icons helps make information easy to understand. An extensive range of signaling capabilities lets you exchange status messages with your dispatcher to minimize channel usage and improve efficiency, or discreetly signals for emergency help even when your vehicle is turned off. Additionally, the enhanced menu gives you easy access to all of the radio's many features. With 128 channels, this exceptional mobile delivers the superb communication power and control needed to work at maximum efficiency.

SPECIFICATION SHEET

GENERAL SPECIFICATIONS

	Low Band
Channel Capacity:	128
Typical RF Output: High Power	40-60W
Frequencies:	29.7-36 MHz 36-42 MHz 42-50 MHz
Dimensions: (H x W x D) High Power	2.83 x 7.28 x 10.02 inch 72 x 185 x 255 mm
Weight: High Power	4.5 lbs (2.04 Kg)
Current Drain: Standby Rx @ rated, external 8 ohm speaker:	.4A 1.5A
Transmit:	17A
FCC Description:	AZ492FT1627 (29.7-36 MHz), AZ492FT1628 (36-42 MHz) AZ492FT1626 (42-50 MHz)

TRANSMITTER SPECIFICATIONS

	Low Band
Channel Spacing:	12.5/20/30 kHz
Frequency Stability: (-30° C to +60° C, +25° Ref.)	± 5 ppm
Power Output: High Power	40-60W
Modulation Limiting:	± 5.0
FM Hum and Noise:	-45dB (25 kHz)*
Conducted/Radiated Emission:	-26dBm
Adjacent Channel Power:	-70dB
Audio Response:	TIA 603 and ETS300 and CEPT 84 Annex 2
Audio Distortion:	3% Typical
FM Modulation:	16K0F3E (25 kHz)*

RECEIVER SPECIFICATIONS

	Low Band
Frequencies:	29.7-36 MHz 36-42 MHz 42-50 MHz
Channel Spacing:	12.5/20/30 kHz
Frequency Stability: (-30° C to +60° C, +25° Ref.)	± 5 ppm
Sensitivity: (12dB SINAD)	0.3 µV (0.25 Typical)
Intermodulation:	78dB Typical
Adjacent Channel Selectivity:	80dB
Spurious Rejection:	80dB
Rated Audio: External w/4 ohm speaker	3W Internal, 13W External
Audio Distortion @ Rated Audio:	3% Typical
Hum and Noise:	-40 dB @12.5 kHz
Audio Response:	TIA603 and ETS300 and CEPT 84 Annex 2
Conducted Spurious Emission:	-57dBm < 1 GHz -47dBm > 1 GHz

PORTABLE MILITARY STANDARDS

Applicable MIL-STD	810C Method/Procedure	810D Method/Procedure	810E 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
Storage Temperature: -55° to +85° C
Thermal Shock: -40° to +85° C
Humidity: 95% RH @ 8 Hr.
ESD: IEC 801-2 KV
Water Intrusion: IP54
Packing Test: Impact Test

MOTOROLA

R3-1-2043 POD