



THE PRACTICAL RADIO—THAT GETS THE JOB DONE

CDM750™

AVAILABLE IN LOW BAND, VHF AND UHF OPERATES ON CONVENTIONAL SYSTEMS

This radio is ideal for organizations and businesses with moderate communication requirements, especially those in construction and manufacturing industries.

The CDM750 radio provides simple yet high-performing functionality. Its streamlined features include the essentials to keep users communicating steadily and efficiently——including limited signaling capabilities and two customizable function buttons.

Motorola's flexible X-Pand audio feature and a large front-projecting speaker ensure clear, crisp sound, even in noisy environments. The CDM750 radio is a practical tool to get the job done.

CDM750™ SPECIFICATIONS

FEATURES AND BENEFITS:

- 4 Channels
- Data Capable
- Scan
 Monitors channels for activity
- Repeater Talkaround
 Unit-to-unit communication, bypassing the repeater

• MDC 1200 Encode Signaling

Sends information via digital signals Features Include:

Caller ID Encode: Allows users to identify you as the caller

Selective Radio Inhibit: Can be remotely deactivated if lost or stolen

• X-Pand[™] Audio Enhancement

Crisp, clear audio quality

• Monitor/Permanent Monitor

Allows continuous channel monitoring



- Multicolored LED Indicators
 Visible feedback of transmit, scan,
 and monitor status
- 2 Large, Easy to Use Controls
- 3 Large Textured PTT Button on Palm Microphone
- 4 Powerful, Front-Projecting Speaker

- Fugged, Die-Cast Chassis with Polycarbonate Outer Shell
- 6 2 Customizable Function Buttons (P1, P2)
 Program for instant access to your favorite features
- 7 4 Channel Selector Buttons



		Low Band	VHF	UHF
Channel Capacity		4	4	4
Typical RF Output	Low Power High Power	40-60W	1-25W 25-45W	1-25W 25-40W
Frequencies		29.7-36 MHz, 36-42 MHz 42-50 MHz	136-174 MHz	403-470 MHz 450-512 MHz
Dimensions (H x W x D)	Low Power (1-25W)		2.2 x 6.93 x 6.97 in. 56 x 176 x 177 mm	2.2 x 6.93 x 6.97 in. 56 x 176 x 177 mm
,	High Power	2.3 x 6.93 x 9.47 in. 58 x 176 x 240 mm	2.2 x 6.93 x 7.44 in. 56 x 176 x 189 mm	2.2 x 6.93 x 7.44 in. 56 x 176 x 189 mm
Weight	Low Power High Power	N/A 4.5 lbs (2.04 Kg)	3.15 lbs (1.43 Kg) 3.5 lbs (1.59 Kg)	3.15 lbs (1.43 Kg) 3.5 lbs (1.59 Kg)
Current Drain Rx @ rated, externa	Standby Il 8 ohm speaker	.4A 1.5A	.3A 1.5A	.4A 1.5A
Transmit		17A	7A@25W, 13.5A@45W	7A@25W, 13.5A@40W
FCC Description		AZ492FT1627 (29.7-36 MHz) AZ492FT1628 (36-42 MHz)	AZ492FT3796 (25W) AZ492FT3795 (45W)	AZ492FT4835 (25W, 403-470 MHz) AZ492FT4830 (40W, 403-470 MHz) AZ492FT4829 (25W, 450-512 MHz) AZ492FT4836 (40W, 450-512 MHz)

		Low Band	VHF	UHF
Channel Capacity		12.5/20/30 kHz	12.5/20/25 kHz*	12.5/20/25 kHz*
Frequency Stability (-30° to +60° C, +25° Ref.)		± 5 ppm	± 2.5 ppm	± 2.5 ppm
Typical RF Output	Low Power High Power	40-60W	1-25W 25-45W	1-25W 25-40W
Modulation Limiting		± 5.0	± 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*
FM Hum and Noise		17A	7A@25W, 13.5A@45W	7A@25W, 13.5A@40W
Conducted/Radiated Spurious Emission		-26dBm < 1 GHz -26dBm > 1 GHz	-36dBm < 1 GHz -30dBm > 1 GHz	-36dBm < 1 GHz -30dBm > 1 GHz
Adjacent Channel Power		-70dB	-60dB @ 12.5 kHz, -70dB @ 25 kHz*	-60dB @ 12.5 kHz, -70dB @ 25 kHz*
Audio Response		TIA 603 and ETS300 and CEPT 84 Annex 2	TIA 603 and ETS300 and CEPT 84 Annex 2	ETS300 and CEPT 84 Annex 2
Audio Distortion		3% Typical	3% Typical	3% Typical
FM Modulation		16K0F3E (25 kHz)	16K0F3E (25 kHz)* 11K0F3 (12.5 kHz)	16K0F3E (25 kHz)* 11K0F3 (12.5 kHz)



PRODUCT SPEC SHEET

CDM750™

	Low Band	VHF	UHF
Frequencies	29.7-36 MHz, 36-42 MHz 42-50 MHz	136-174 MHz	403-470 MHz 450-512 MHz
Channel Spacing	12.5/20/30 kHz	12.5/20/25 kHz*	12.5/20/25 kHz*
Frequency Stability (-30° C to +60° C, +25° Ref.)	± 5 ppm	± 2.5 ppm	± 2.5 ppm
Sensitivity: (12dB SINAD)	0.3 μV (0.25 Typical)	0.3 μV (0.23 Typical)	0.3 μV (0.23 Typical)
Intermodulation	78dB Typical	75dB @ 12.5 kHz 78dB @ 25 kHz*	75dB @ 12.5 kHz 75dB @ 25 kHz*
Adjacent Channel Selectivity	80dB	65dB @ 12.5 kHz 80dB @ 20 kHz 80dB @ 25 kHz*	65dB @ 12.5 kHz 75dB @ 20 kHz
Spurious Rejection	80dB	75dB @ 12.5 kHz VHF 80dB @ 25 kHz*	70dB @ 12.5 kHz 75dB @ 25 kHz*
Rated Audio: External with 4 ohm speaker	3W Internal, 13W External	3W Internal, 13W External	3W Internal, 13W External
Audio Distortion @ Rated Audio	3% Typical	3% Typical	3% Typical
Hum and Noise	-45dB	-40dB 12.5 kHz, -45dB 25 kHz*	-40dB 12.5 kHz, -45dB 25 kHz*
Audio Response	TIA603 and ETS300 and CEPT 84 Annex 2	TIA603 and ETS300 and CEPT 84 Annex 2	TIA603 and ETS300 and CEPT 84 Annex 2
Conducted Spurious Emission	-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 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

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