



MOTOROLA
intelligence everywhere™



*MOTOROLA CDR500 AND CDR700 REPEATERS
THE SMART WAY TO EXTEND YOUR TWO-WAY*



CDR500 AND CDR700 REPEATERS

MOTOROLA TWO-WAY RADIOS- QUALITY YOU CAN COUNT ON

Smart professionals in every business know that reliable communication is essential to success. Whether you're in the office or on the road, you need fast, dependable access to the right people and information so you can get the job done. And that's exactly what two-way radio delivers. Efficient two-way radio lets you talk with one, ten, or one hundred people at the touch of a button—without costly airtime charges. Two-way radio provides the individual and team contact you need to maximise productivity and meet your customers' demands—the first time and every time.

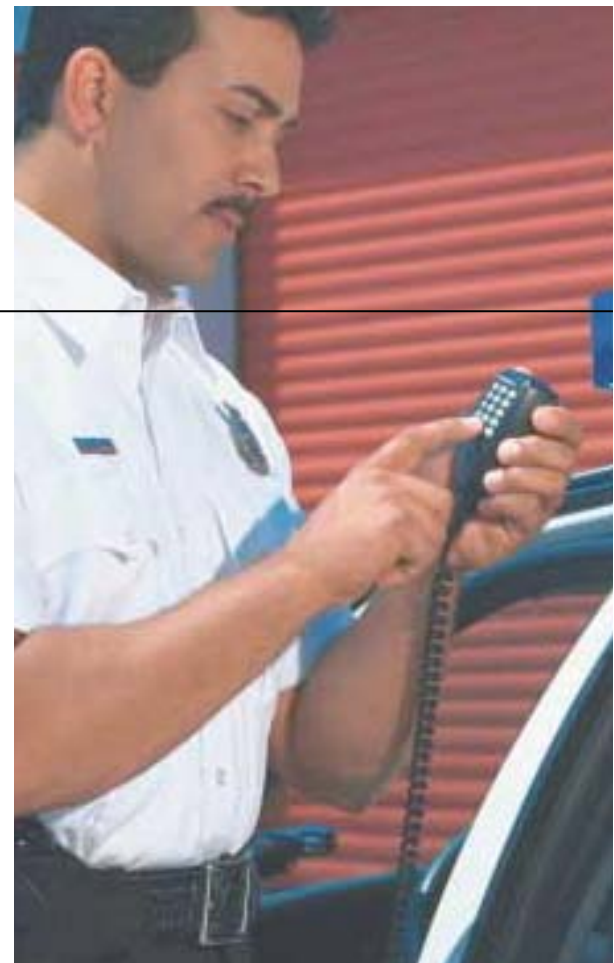


TAKING YOUR BUSINESS COMMUNICATION THE EXTRA MILE

As your business grows and changes, your communication requirements expand as well—requiring quicker, more flexible communication tools that can go as far and fast as you do. The Motorola CDR500 and CDR700 repeaters provide the perfect solution. By making it easy to extend your two-way system to accommodate longer distances, these repeaters let you widen the reach of your radios as you broaden your customer base.

UNIQUE VERSATILITY AND POWER

Both the Motorola CDR500 and CDR700 repeaters offer extensive functionality and power to help you increase the calling range and capabilities of your mobile or portable radios—so you can enhance on-the-job efficiency. By receiving and resending radio transmissions these powerful repeaters help you extend your communication range and maintain clear sound quality. Available in lowband, UHF, and VHF frequencies, the Motorola CDR500 and CDR700 repeaters suit a wide variety of applications and can be easily integrated with your existing infrastructure.



CDR500 AND CDR700



CDR700 Repeater



CDR500 Repeater

EXCEPTIONAL BENEFITS

The Motorola CDR500 and CDR700 repeaters delivers valuable benefits, including:

- **Remarkable flexibility** that allows you to choose the frequency and power levels best for your business—or combine two frequencies to create a bidirectional or crossband repeater.
- **The Motorola CDR500 offers a variety of mounting options** to suit your location and usage needs. It can be installed in a 19" rack or mounted on the wall with a handy, lockable wall mount.
- **The Motorola CDR500 desktop model offers sleek, compact design** that compliments any office decor—and allows quick and easy access for system adjustments.
- **Reliable, cost-effective 15A continuous duty power supply** that allows selection of either thermal-controlled or continuous operation of the fan for quiet performance and enhanced efficiency on the Motorola CDR700 model.

Don't wait to take your business communication to the next level. Call your Motorola representative today to ask about the Motorola CDR500 and CDR700 repeaters. It's the smart way to extend your two-way.

MOTOROLA - A NAME YOU KNOW AND TRUST

For more than 65 years, Motorola has been a leader in creating state-of-the-art wireless communication for people like you—and the Motorola CDR500 and CDR700 repeaters uphold that superior standard. Each Motorola component is backed by a limited two-year* warranty on parts and labour. So when you select the Motorola CDR500 and CDR700 repeaters, you'll experience the same exceptional quality and service you've come to expect from all Motorola products.

* Motorola Original radio accessories are covered by Motorola's one-year accessories warranty.

CDR700 REPEATERS

FLEXIBILITY

The Motorola Original Accessories available for your Motorola CDR500 and CDR700 repeaters help you expand and customise your system to meet your business needs.

Controllers - offer you a range of options to accommodate your market and application requirements. A unidirectional configuration provides added range for radios on widespread worksites. A bidirectional configuration can temporarily join two separate groups during critical situations. Unidirectional crossband provides the capability to monitor frequencies such as weather or road condition channels, and bidirectional crossband can temporarily join two groups that normally operate on different frequency bands.

Duplexers - let you use just one antenna for both transmitting and receiving signals. The use of a duplexer is more cost effective than two antennas and feed lines, and can better equalise the transmit and receive ranges to improve radio communications.

Mounting Accessories - are available for the Motorola CDR500 such as a mounting plate which allows the repeater to be installed in a 19" rack. For wall-mounting, an optional mounting plate is also available.

Battery Revert Module - is available for the Motorola CDR700 (standard in the Motorola CDR500).

Antennas - are available to offer you flexibility in size and calling range.

Radio Accessories - including a compact desktop microphone, are available for dispatch applications. External speakers are available for use in noisy environments.



CRD500 and CRD700 Specification*

Frequency Rang	Radio Dependant
Dimensions	(H x W x D)
CRD500	7.5" x 17.5" x 13.5" (191mm x 445mm x 343mm)
CRD700	12.2" x 8.3" x 12.5" (310mm x 211mm x 318mm)
Weight	
CRD500	47 lbs. (21.3 Kg)
CRD700	28.3 lbs. (12.8 Kg)
Duty Cycle	Continuous Low Power 25W (to duplexer) Intermittent High Power 40/45W (to duplexer)
Power Supply	
Primary Input Voltage	115/230 50-60Hz Standard U.S. Three Prong Plug

*Specifications are subject to change without notice



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AC3-02-005

Contact our Dealer for more information

KEY FEATURES

Signalling

- Private Line™
- 5-tone selective signalling

Easy to use and set-up

- Intuitive menu-driven user interface and large controls enable easy access to many features
- 14 character alpha-numeric display
- Programmable buttons
- PC programmable*

Adaptable and versatile

- Option board capability allows additional features and customer-specific functions*
- Easily programmed in the field to support additional features
- Data capability allows interface to third party terminals to enhance communications

Protecting users

- Emergency signalling
- Lone worker
- External alarm

Quality

- MIL Spec 810 compliant
- Meets IP54 environmental standards
- Passed Motorola Accelerated Life Test
- X-Pand™ voice compression technology

Efficiency

- Channel scanning
- Call forwarding
- Status calls
- Car radio mute
- Memory channel
- Voice operated transmit (VOX)

Included as standard

- Battery power cable
- Enhanced compact microphone
- 3 point mounting tray

Accessory options

A wide range of accessory options are available to customise your radio

- Microphones and desktop solutions
- In-vehicle accessories
- Mounting kits

** For further information, please contact your local dealer or distributor*



GM360

Efficiency Through Communication.

The GM360, one of the market-leading radios in Motorola's Professional Series, offers communications for the mobile workforce in larger organisations. The radio offers broad functionality; an easy-to-use menu with navigation keys for productivity and security features to protect users working alone or remotely.

Option boards and a wide range of accessories and portable radios are also available within the Professional Series. It is easy to build a tailored communications solution to meet your needs.

SPECIFICATIONS

GENERAL			
Specification	VHF	UHF	LB1, LB2, LB3
Frequency Range	136-174 MHz	403-470 MHz	29.7-36.0 MHz 36.0-42.0 MHz 42.0-50.0 MHz
Frequency Stability (-30°C to +60°C, 25°C Ref.)	±2.5 PPM	±2 PPM	±5 PPM
Channel Capacity	255		
Channel Spacing	12.5/20/25 kHz		
Power Output	1-25W	1-25W	45-60W
Power Supply	13.2Vdc (10.8 - 15.6 Vdc) negative vehicle ground		
Dimensions (L x W x H)	1-25W: 186 x 180 x 59mm (add 9mm for Volume knob) 45-60W: 198 x 180 x 59mm (add 9mm for Volume knob)		
Weight	Low power (1-25W): 1450g High power (45-60W) 2064g		
Operating Temperature	-30 to 60°C		
Operation Mode	Intermittent	Intermittent	Intermittent
Sealing	Passes rain testing to IP54		
Shock and Vibration	Meets MIL-STD 810-C,D&E and TIA/EIA 603		
Dust	Meets MIL-STD 810-C,D&E and TIA/EIA 603		
Humidity	Meets MIL-STD 810-C,D&E and TIA/EIA 603		

TRANSMITTER			
Specification	VHF	UHF	LB1, LB2, LB3
Modulation Limiting	±2.5 kHz @ 12.5 kHz ±4.0 kHz @ 20 kHz ±5.0 kHz @ 25 kHz		
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz		
Conducted/Radiated Emissions	-36 dBm < 1 GHz -30 dBm > 1 GHz		-26 dBm
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz		
Audio Response (300 to 3000Hz)	+1, -3dB		
Audio Distortion @ 1000 Hz, 60% Rated Maximum Deviation	3% Typical		

RECEIVER			
Specification	VHF	UHF	LB1, LB2, LB3
Sensitivity (12dB SINAD) (EN)	0.30µV (0.22 µV Typical)		
Intermodulation (EN)	>65 dB		>65 dB
Adjacent Channel Selectivity (EN)	80 dB @ 25 kHz 75 dB @ 20 kHz 65 dB @ 12.5 kHz	75 dB @ 25 kHz 70 dB @ 20 kHz 65 dB @ 12.5 kHz	80 dB @ 25 kHz 75 dB @ 20 kHz 65 dB @ 12.5 kHz
Spurious Rejection (EN)	80 dB @ 20/25 kHz 75 dB @ 12.5 kHz	75 dB @ 20/25 kHz 70 dB @ 12.5 kHz	80 dB @ 20/25 kHz 75 dB @ 12.5 kHz
Rated Audio (EN)	3W Internal 7.5W & 13W External		
Audio Distortion @ Rated Audio	3% Typical		
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz		
Audio Response (300 to 3000Hz)	+1, -3dB		
Conducted Spurious Emission per FCC Part 15:	-57 dBm < 1 GHz -47 dBm > 1 GHz		

MOBILE 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
Temp. 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	1,2,5	516.3	1	516.4	1

Data for +25°C unless otherwise specified

*Availability subject to individual country's law and regulations.

Specifications are subject to change without notice and are issued for guidance only.

All specifications listed are typical. Radios meet applicable regulatory requirements.

Conforms to EC directive EN 300 086 and EN 300 113

Contact your local Motorola Authorised Dealer to find out more about how communicating with the Professional Series radios will benefit your organisation.



For more information please contact your local Motorola Authorised Dealer or Distributor

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GM360-RE(09/06)



KEY FEATURES

Signalling

- Private Line™
- 5-tone selective signalling

Easy to use and set-up

- Programmable buttons for easy access to frequently used features
- Ruggedised design

Protecting users

- Emergency signalling
- Lone worker feature for staff working remotely
- Whisper mode for discreet communications

Quality

- MIL Spec 810 compliant
- Meets IP54 environmental standards
- Passed Motorola Accelerated Life Test
- X-Pand™ voice compression technology

Efficiency

- Channel scanning
- Call management features include call forwarding and escalating incoming call alert

Included as standard

- Battery
- Antenna
- Belt clip
- Accessory dust cover
- User manual

Accessory options

A wide range of accessory options are available to customise your radio

- Audio accessories
- Batteries and chargers
- Carry options

For full details of available accessories, please contact your local dealer or distributor



GP340

Communication Made Easy.

The GP340, one of the market-leading radios in Motorola's Professional Series, is a simple communication solution for portable users requiring a high-quality radio. The GP340 keeps users in touch; increasing efficiency and productivity. The radio offers essential functionality and security features to protect users working alone or remotely.

With option board capability and a wide range of accessories available within the Professional Series; it's easy to build a tailored communications solution to meet your needs.

SPECIFICATIONS

GENERAL SPECIFICATIONS

Channel Capacity	16
Power Supply	Rechargeable Battery 7.5v
Dimensions: H x W x D (mm)	Height excluding knobs
With Standard high capacity NiMH battery	137 x 57.5 x 37.5
With ultra high capacity NiMH battery	137 x 57.5 x 40.0
With NiCD battery	137 57.5 x 40.0
With Li-Ion battery	137 x 57.5 x 33.0
Weight: (gm)	
With Standard high capacity NiMH battery	420
With Ultra high capacity NiMH battery	500
With NiCD battery	450
With Li-Ion battery	350
Average battery Life @5/5/90 Cycle:	Low Power High Power
With Standard high capacity NiMH battery	11 hours 8 hours
With Ultra high capacity NiMH battery	14 hours 11 hours
With NiCD battery	12 hours 9 hours
With Li-Ion	11 hours 8 hours

GENERAL SPECIFICATIONS (continued)

Sealing:	Withstands rain testing per MIL STD 810 C/D/E and IP54
Shock and Vibration:	Protection provided via impact resistant housing exceeding MIL STD 810-C/D/E and TIA/EIA 603
Dust and Humidity:	Protection provided via environment resistant housing exceeding MIL STD 810 C/D/E and TIA/EIA 603
Operating temperature:	-20°C to +55°C

Data is specified for +25°C unless otherwise stated.

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	500.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
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	1,2,5	516.3	1,4	516.4	1,4

TRANSMITTER

*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF: 300-350 MHz UHF1: 403-470 MHz	LB1: 29.7-42 MHz LB2: 35-50 MHz
Channel Spacing	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, + 25°C Ref.)	±2.5 ppm	±10ppm
Power	136-174: 1-5W 300-350: 1-4W 403-470: 1-4W	1-6W
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz	±2.5 @ 12.5kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz
FM Hum & Noise	-40dB typical	-40dB typical
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1GHz	-36 dBm 1000MHz -30 dBm 1000MHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz	-60 dB @ 12.5 kHz -70 dB @ 25 kHz
Audio Response (300-3000Hz)	+1 to -3 dB	+1 to -3 dB
Audio Distortion	3%	3%

RECEIVER

*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF: 300-350 MHz UHF1: 403-470 MHz	LB1: 29.7-42 MHz LB2: 35-50 MHz
Channel Spacing	12.5/20/25 kHz	12.5/20/25 kHz
Sensitivity (12 dB SINAD) EIA	.25µV typical	.25µV typical
Sensitivity (20 dB SINAD) EN	.50µV typical	.50µV typical
Intermodulation EIA	70 dB	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz	60 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection	70 dB	70 dB
Rated Audio	0.5W	0.5W
Audio Distortion @ Rated Audio	3% typical	3% typical
Hum & Noise	-40 dB @ 12.5 kHz -50 @ 20/25 kHz	-45 @ 12.5 kHz -50 @ 20/25 kHz
Audio Response (300-3000 Hz)	+1 to -3 dB	+1 to -3dB
Conducted Spurious Emission	-57 dBm <1 GHz -47 dBm <1 GHz EN 300 086	-57 dBm <1 GHz -47 dBm <1 GHz FCC Part 15

*Availability subject to individual country's law and regulations.

Specifications are subject to change without notice and are issued for guidance only.

All specifications listed are typical. Radios meet applicable regulatory requirements.

Conforms to EC directive 89/336/EEC

Complies with EN 300 113

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