

GR300/500



# MOTOROLA

## Radius GR500





**Features/Advantages.**

- Designed for;
  - Desk Top Operation (GR300)
  - Wall Mounted Operation (GR500)
- Field Programmable
- Desktop Control Point Operation (GR300)
- Supports VHF/UHF/Cross band
- Multiple Frequency Operation Available
- Time-Out Timer
- Internal Mounting for Duplexer

**Standard Repeater Model Includes:**

- Metal Enclosure with Temperature Controlled Fan (GR300)
- Wall Mount, Lockable, Heavy Duty Metal Case (GR500) with Continuous Fan
- Power Supply with Switchable Primary Voltage
- Complete Set of Cables to Facilitate Interconnections

**Complete Repeater Package Requires The Addition Of:**

- 2 Radius GM300 Mobile Radios
- Duplexer (optional and available in all sub-bands)

**Optional Alternatives To The Standard Configuration**

- Repeater Interface Communications Kit (R\*I\*C\*K)
- i50R Basic Telephone Interconnect
- ZR310 Multiple Tone Panel
- ZR320 Interconnect With Selective Calling
- ZR330 Remote Telephone Interface
- ZR350 5 Tone Telephone Interconnect

**Accessories**

- Tone Remote Adapter for use with Desktop Controllers
- Front and Back Protective Covers with Carrying Handle (GR300)
- Centro Plus Desktop Controller
- C100 Desktop Controller
- Antenna Systems
- Desk Microphone



## Stay in touch on the move

### R\*I\*C\*K Module Features

- Dip Switch Programmable
- Hang Time 0, 1.5 or 3 seconds
- EIA or Flat Audio
- Bi-Directional or Uni-Directional Operation
- Supports GM300 Accessory Connector
- Front Panel "Repeater Enable Control"
- Variable Level Repeat Audio Path
- Compatible with RapidCall Signalling

### R\*I\*C\*K Applications

#### • Uni-Directional

Allows standard repeater operation, using only one transmitter and one receiver.

**Applications:** Provides added range for portables on widespread construction sites.

#### • Bi-Directional

Allows two groups on different frequency pairs within the same frequency band to communicate.

**Applications:** Temporarily joins two separate groups such as Civil Defence and Fire for emergency relief.

#### • Uni-Directional Cross Band

Allows radios on one frequency band to monitor transmissions from another.

**Applications:** Provides the capability to monitor frequencies such as weather or road condition channels.

#### • Bi-Directional Cross Band

Allows two groups operating within different frequency bands to communicate.

**Application:** Temporarily joins two groups that normally operate on different frequency bands, such as public works and police, for natural disaster situations.

### GR300 and GR500 Enhanced Options

The following are plug-in modules which replace the R\*I\*C\*K in the standard configuration and continue to provide repeater capability.

#### • i50R Basic Telephone Interconnect

The i50R allows interconnection with the land-line telephone networks. Standard features include automatic call forwarding, call limit timer, mobile inactivity timer, automatic line levelling and long distance inhibit.

#### • ZR310 Multiple Tone Panel

Functions as a community repeater tone panel. Includes a full portfolio of features such as 50 PL and 20 DPL user groups, courtesy tones, squelch tail elimination, high quality repeat audio, sensitive tone decoding and station ID.

#### • ZR320 Interconnect With Selective Calling

With the addition of the ZR320, the GR300 and GR500 become a single group repeater with full-featured telephone interconnect. These features include selective calling so that any radio can call another specific radio as well as the land-line telephone network, DTMF and Quick-Call II signalling.

#### • ZR330 Remote Telephone Interface

The ZR330 is for use in remote areas where a land-line telephone network is not available. It provides telephone service via radio by supplying an interface between a standard DTMF telephone instrument and a radio. This remote telephone interface requires the use of an additional repeater with the ZR320 at a separate base connected to the land-line telephone network to provide nearly transparent phone operation for rural or emergency applications.

#### • ZR350 5 Tone Telephone Interconnect

For use in 5 tone systems, the ZR350 enables telephone users to call 5 tone radios. To call telephone users, radios must be equipped with a DTMF keypad or microphone.





- For remote control of GR300/500 repeaters over fixed land line, use Tone Remote Adaptor and either Centro Plus or C100 Desktop Controllers (Centro Plus shown)

**Motorola: your assurance of quality.**

The Motorola GR300/500 has been developed to offer a high level of durability and operational reliability. Like all of our products, The Motorola GR300/500 has passed the unique Motorola Accelerated Life Test, which simulates five years' use in the field.

Not only that, but the Motorola name itself is a guarantee of trouble free service.

As the world's leading manufacturer of mobile communications equipment, Motorola is dedicated to excellence in its products and level of customer support.

That commitment is shared by Motorola Authorised Re-sellers, who will install and service your system and provide expert advice on the Motorola added extras - a comprehensive range of accessories.

**SPECIFICATIONS**

**Frequency Range**

- VHF: 136 - 162 MHz
- 146 - 174 MHz
- UHF: 403 - 433 MHz
- 438 - 470 MHz
- 465 - 495 MHz
- 490 - 520 MHz

**Channel Spacing**

- 12.5 kHz
- 20 kHz
- 25 kHz

**Power Output**

- VHF: up to 45 W
- UHF: up to 40 W

**Dimensions (HxWxD)**

- 265 x 258 x 190 mm (GR300)
- 445 x 343 x 190 mm (GR500)

**Duty Cycle**

- GR300: 25 W Continuous
- 40/45 W Intermittent
- GR500: 25 W Continuous
- 40/45 W 50%

**Power Supply**

- 120/240 VAC
- 50/60 Hz

*Contact your local Authorised Motorola Re-seller to find out more about how communicating with the GR300 and GR500 will benefit your organisation*

Your Authorised Motorola Re-seller is:



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