



Model

## GIDM-800

Ground independent cellular  
mobile phone antenna  
220mm

Lower 4G  
825-890 MHz  
2.1 dBi

- ➔ Ground independent.
- ➔ Mounts to any bracket with minimum 10 mm diameter hole.
- ➔ 4.5 metres RG58A/U stranded cable.
- ➔ FME female connector fitted as standard.
- ➔ 5 watts maximum input power.

## INSTALLATION GUIDE

[www.zcg.com.au](http://www.zcg.com.au)

### ANTENNA DESCRIPTION

The GIDM-800 ground independent 4G cellular mobile phone antenna is just 220mm tall and delivers excellent performance with 2.1 dBi gain, suitable for hilly terrain or low gain requirements.

This antenna is a rugged, lightweight and unobtrusive elevated feed design with detachable small profile whip.

4.5 metres of RG58A/U stranded cable bottom exits through the base. A FME female connector is fitted to the cable as standard for easy installation, other terminations and/or adaptors are available upon request.

A detailed specification sheet is available to download from [www.zcg.com.au](http://www.zcg.com.au)

### TUNING

The GIDM-800 has been tuned in the factory to cover the lower 4G mobile phone network 825-890 MHz, utilised by all carriers within Australia. Please check your local coverage map for exact frequency availabilities in your area.

VSWR has been optimised to better than 1.6:1 across the full 4G cellular mobile phone frequency range 825-890 MHz.

**Please note: this antenna will not transmit/receive cellular signal where no base station (towers/poles) infrastructure signal is present. Please check your carriers network coverage map for signal presence.**

This tuning cannot be altered.

### SELECTING THE MOUNTING POSITION

No metal ground plane is necessary for the antenna to operate effectively. Meaning you can mount this antenna on any surface.

Typical mounting positions for this antenna are to your vehicle bull bar, guard, boot, truck mirror or bracket using the appropriate bracket with a minimum 10mm diameter hole.

The antenna can also be mounted in locations other than on a vehicle such as a building, portable office, or in a temporary installation location.

To achieve best performance from your antenna, these are the important principles you should consider when selecting the mounting point :

1. **Mount the antenna in as high a place as possible.**
2. **Mount the antenna as far away from other antennas and metallic objects as possible to avoid distortion of the 360° omnidirectional pattern and interference. At least 350 mm side clearance is desirable, preferably more.**
3. **Mount the antenna vertical, not at an angle.**

### INSTALLATION GUIDE

Remove the split nut from the threaded base, remove it from the cable. Pass the cable through the hole of your mounting bracket.

Place split nut back on the cable and onto the threaded base.

From underneath, tighten the nut to secure the antenna firmly to the bracket.

**IMPORTANT :** Leave some slack in the cable at the point where the cable bottom exits the threaded base so as not to place unnecessary tension on the cable.

Route the RG58A/U cable carefully to your mobile phone or device. Ensure that the cable is not stretched excessively and there are no sharp bends/kinks. Avoid high heat areas in the engine bay or locations where electrical interference may occur such as fuse boxes, exposed wires and/or electric fans.

Use uPVC cable ties or cable wrapping to secure your cable along the intended route. Do not apply excessive tension (overtighten) as as to crush the cable. A damaged feeder cable is a cause of high VSWR, reduced performance and/or total failure of your system.

Insert the FME female connector into your mobile phone/cellular frequency usage device. The maximum input power rating is 5 watts.

**Installation is now complete.**



*The cable may be cut shorter if desired. However, a new connector will then need to be fitted using proper tools.*

*If the FME female connector fitted to the cable does not suit your mobile phone, then any other connector which is suitable for RG58 cable can be fitted.*

*Alternatively use a suitable adaptor, or a patch lead.*