



Model

SGDB-T10

Ground Independent
Multiband Cellular Antenna

4G, Next G, 3G & GSM

6.2 dBi Gain

Recommended for Mast Mounting

- Dual mounts via a UB3SS or EB1SS (sold separately)
- 10 metres of RG58 low loss stranded cable.
- SMA male connector fitted to the cable.

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

The SGDB-T10 telemetry antenna is a popular choice for good reason:

1. Multiband coverage of the **4G, NextG, 3G** and **GSM** networks combined.
2. Effective performance with **6.2 dBi** gain.
3. Ground independent; no metal ground plane is necessary.
4. Modest size at 90 cm tall.
5. Robust construction ensuring a long service life.

A detailed specification sheet is available to download from www.zcg.com.au

TUNING

The antenna has been tuned in the factory to cover the **4G, NextG, 3G** and **GSM** cellular mobile phone networks combined. VSWR has been optimised to better than 1.6:1 across the full frequency range 825 to 960 MHz.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

The threaded base and rod assembly allows this antenna to be mounted via either a clamp arrangement or via a mounting bracket using the supplied 1/2" S/S nut.

The antenna can also be mounted in locations other than on a vehicle.

No metal ground plane is necessary for the antenna to operate effectively.

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

IMPORTANT : Leave some slack in the cable at the point where the cable exits the mounting handle.

Ensure that the cable is not stretched excessively and there are no sharp kinks. Use cable ties, but do not pull so tight as to crush the cable. A damaged feeder cable is a cause of high VSWR and reduced performance.

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

SEALING CONNECTIONS

For the harsh Australian environment, it is vital that all connections be well sealed with at least two layers of self-amalgamating tape to prevent ingress of moisture followed by a layer of UV stabilised PVC tape. PVC or electrical tape by itself will not be adequate.

Installation is now complete.

MAINTENANCE

This antenna has been designed for high reliability and low maintenance. We recommend that you conduct a routine annual mechanical inspection of the antenna, feeder cable and connections.

