



Model

## SGDB-MM-N

Super Gain

Dualband Mast Mount

Cellular Antenna

# 4G, Next G, 3G & GSM

## 6.2 dBi Gain

Recommended for Mast Mounting

- Dual mounts via a UB3-SS or EB1-SS (sold separately)
- N-female located in base of mounting tube

## INSTALLATION GUIDE

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

### ANTENNA DESCRIPTION

The **SGDB-MM-N** telemetry antenna is a popular choice:

1. Dualband coverage of **4G/ NextG/ 3G** and **GSM** networks.
2. Effective performance with **6.2 dBi & 3 dBi** gain.
3. Ground independent; no metal ground plane is necessary.
4. Modest size at 140 cm tall.
5. Robust construction ensuring a long service life.

The fibreglass radome is available in white

A detailed specification sheet is available to download from

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

### TUNING

The antenna has been tuned in the factory to cover the 4G/ Next G/ 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 & 1710-2190 MHz.

This tuning cannot be altered.

### SELECTING THE MOUNTING POSITION

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

To achieve best performance from your antenna, consider these important principles 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.**
4. **Ensure clamp is tight, but not too tight as to distort mounting tube.**

### 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.