



Model

MD2400-SPB

WiFi/wireless data spring base

collinear - 300mm

2.4 – 2.5 GHz

ISM band

2.1dBi

- Ground independent.
- Secure to any bracket/hole with minimum 12.7mm (½") diameter hole using the stainless steel nut and washer at the base.
- Stainless steel parallel spring at base
- 5 metres RG58 low loss cable with SMA Male connector fitted.
- 10 watts maximum input power.

INSTALLATION GUIDE

www.zcgc.com.au

ANTENNA DESCRIPTION

This WiFi/wireless data spring base collinear covers the full frequency range 2.4-2.5GHz and delivers 2.1dBi gain.

Standing just 300mm tall, construction consists of a coloured fibreglass radome, aluminium mount ferrule and cap, stainless steel parallel spring and 5 metres RG58 MIL-SPEC low loss.

5 metres of RG58 low loss cable bottom exits from the aluminium ferrule. An SMA male connector rated for up to 10 watts input power is fitted to the cable.

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

TUNING

The antenna is tuned in the factory to cover the full WiFi/wireless data frequency range 2.4-2.5GHz.

VSWR has been optimised to better than 1.5:1 across the full band.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

The MD2400-SPB is ideal for either fixed position or vehicle mounting using any bracket or hole with a minimum 12.7mm (½") diameter hole using the stainless steel nut and washer at the base.

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

Remove the nut and washer from the antenna mount ferrule.

Insert the threaded mount ferrule into the mounting bracket.

From underneath, thread the washer onto the ferrule and tighten the nut to firmly secure the antenna to the bracket.

IMPORTANT: Leave some slack in the cable at the point where the cable exits the mount ferrule so as not to place unnecessary tension on the cable.

Route the RG58 low loss cable carefully to your WiFi/wireless data device. 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.

Insert the SMA male connector into your WiFi/wireless data device.

Installation is now complete.



An SMA Male connector is fitted to the cable.

Secure to any bracket with minimum 12.7 mm (½") diameter hole

