



Model

SG2400-8

Ground Independent ISM2.4, WiFi,
WLAN parallel spring base collinear
- 550mm

ISM2.4/WiFi/WLAN 2.4-2.5GHz 8dBi

- Mounts into any bracket with minimum 16mm diameter hole.
- 5 metres of MIL-SPEC RG58 low loss stranded cable.
- Reverse gender SMA male connector fitted as standard
- 30 watts maximum input power.

INSTALLATION GUIDE

www.zcgc.com.au

ANTENNA DESCRIPTION

The **SG2400-8** omni-directional 2.4-2.5GHz Industrial, Scientific and Medical, WiFi/WLAN parallel spring base collinear.

With 8dBi gain, the antenna will deliver consistent and dependable results with maximum efficiency, particularly where signal strength is marginal.

The light-duty parallel stainless steel spring and fibreglass radome stands 550mm tall.

A range of brackets are available to suit various mounting positions.

5 metres of MIL-SPEC RG58 low loss stranded cable bottom exits through the spring base. A reverse gender SMA male crimp connector is fitted.

The fibreglass radome is standard finish of white, black radome is available on request.

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

TUNING

The antenna has been tuned in the factory to cover the 2.4-2.5GHz frequency range at 1.6:1 VSWR.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

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

Typical mounting positions for this antenna are to your vehicle bull bar or guard, the boot of a sedan or truck mirror using the appropriate bracket with a 16 mm diameter hole minimum.

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

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 interference and distortion of the 360° omni-directional pattern. At least 350mm side clearance is desirable, preferably more.**
3. **Mount the antenna properly vertical, not at an angle.**

INSTALLATION TOOLS REQUIRED

- 16mm drill bit for mounting hole of spring base (if required)
- 22mm spanner for base securing
- Cable ties for securing coaxial cable route
- Small cutters for cable tie excess removal
- Amalgamation tape and PVC tape for connector sealing

INSTALLATION GUIDE

Remove the nut and washer from the threaded base and slip them off over the cable. Pass the cable through the hole of your mounting bracket or mounting hole. Next thread the washer and then the nut back up 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 exits through the spring base. This will allow the antenna to flex in the usual manner during travel.



Route the MIL-SPEC RG58 low loss stranded cable carefully. Avoid high heat areas or electrical interference areas. 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.

Connect the connector to your device. The maximum input power is 30 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 Reverse gender SMA male connector fitted to the cable does not suit your installation, then any other connector which is suitable for RG58 cable can be fitted. Otherwise a suitable adaptor, or a patch lead can be supplied by ZCG.