GUIDE



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- Oceanic sealed for marine/maritime environments

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.2dB

တ

820-960 & 1710-2190MHz

dualband

networks

С Ш С Model

INSTALLATION TOOLS REQUIRED Mounting hardware to mount antenna

**INSTALLATION GUIDE** 

the antenna

no sharp kinks.

order separately)

a patch lead.

without prior notice

Specifications are subject to change

Installation is now complete.

Independent Mobile Phone Oceanic Sealed Ground

Collinear



Adjustable spanner for mounting hardware securing

Amalgamation tape and PVC tape for connector sealing

Select the mounting position of the SGDB-SS-S on your

structure, tower or pole. Mount onto the pole, tower or structure

using your selected mounting clamps (order separately) and

ensure all U-bolts or bolts are tight enough for no movement from

If not using the supplied mast mounting hardware, the mast

mount adaptor can be removed and mounting utilising the ferrule

thread and an appropriate nut and washer (not supplied) into a

Route the RG58A/U stranded cable carefully to your radio.

Ensure that the cable is not stretched excessively and there are

IMPORTANT : Leave some slack in the cable at the point

where the cable exits the mount ferrule as to not put any

strain on the cable and internals. Secure the cable along the calbe route using cables ties (ZCG recommend 316

stainless steel cable ties for maritime/marine environments,

Insert the FME female connector into your mobile phone or

ZCG recommend a yearly complete check of your installation, terminations and mounting hardware to

The cable may be cut shorter if desired. However, a new

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. Otherwise use a suitable adaptor, or

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connector will then need to be fitted using proper tools.

mobile device. The maximum input power is 30 watts.

ensure reliable performance of your system.

minimum M12 hole or bracket with a minimum M12 hole

Cable ties for securing coaxial cable route

Small cutters for cable tie excess removal

## ANTENNA DESCRIPTION

The SGDB-SS-S mobile phone and wireless data antenna is a popular choice for good reason :

- Multiband coverage of all carriers lower and upper 4G 0 networks
- Effective performance with 6.2 dBi and 3 dBi gain.
- ٢ Modest size at 900mm tall.
- ٢ Oceanic sealed and stainless steel construction ensuring a long service life in maritime/marine environments.

The antenna mounts easily onto any pole, tower or structure utilising the stainless steel mounting section and appropriate mounting clamps (order separately). Alternatively you can remove the mounting section and mount using the thread at the base of the ferrule into any minimum M12 hole.

5 metres of RG58A/U stranded cable side exits from the stainless steel mount ferrule. An FME female connector is fitted to the cable as standard for easy installation.

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

## TUNING

The antenna has been tuned in the factory to cover all available carriers upper and lower 4G networks

VSWR has been optimised to better than 1.6:1 across the full frequency range 825-960 MHz and 1710-2190 MHz.

This tuning cannot be altered.

Please note: The SGDB-SS-S will not transmit/receive cellular signal where no infrastructure (fixed) is present.

## SELECTING THE MOUNTING POSITION

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

The recommended mounting position for the SGDB-SS-S is as high on your structure, tower or pole as possible to achieve a true omni-directional signal pattern. Structures such as tower sides, walls and other antennas will reduce the signal pattern resulting in a non-omni-directional signal pattern.

The antenna can alternatively be mounted into/onto a minimum M12 hole on a vessel, vehicle or roof bracket.

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° omni-directional pattern and interference. At least 350mm side clearance is desireable, preferably more.
- 3. Mount the antenna vertical, not at an angle.

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