

## Section 7

### DATA LINK ANTENNAS

Updated 22 February 2011

## SG2400 Stud Mount and Flange Mount ISM Band Collinear

**Frequency**  
2.4 – 2.5 GHz

**Bandwidth**  
Full Band



These omnidirectional collinear ISM band data link antennas deliver 5.14 dBi gain and are available in either stud mount or flange mount models.

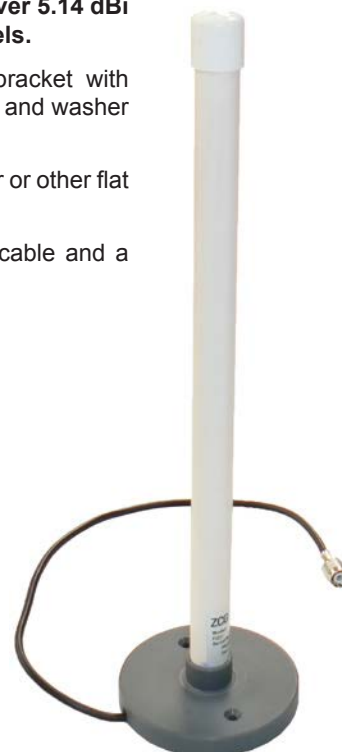
- **SG2400TPM** stands 55 cm tall and mounts simply into any bracket with 12.7 mm (1/2") minimum diameter hole using the stainless steel nut and washer at the base.
- **SG2400R** has a PVC flange designed for mounting to the roof, floor or other flat surface using 2 screws. The antenna stands 38 cm tall.

Both models are supplied with 50 cm of RG58 low loss solid core cable and a TNC Male connector fitted as standard.



Connectors other than TNC can be supplied as required.

At data link 2.4 GHz frequencies, it is important to keep feeder cable runs to the shortest length necessary. Where a long run is unavoidable, then a high quality low loss cable such as RU400 should be used.



SPECIFICATIONS	SG2400TPM	SG2400R
<b>Construction</b>	Aluminium ferrule Brass silver soldered internals and white fibreglass radome	PVC Flange, 10 cm diam
<b>Frequency Range</b>	<b>2.4 to 2.5 GHz full band</b>	
<b>VSWR</b>	Less than 1.5:1 across the full band	
<b>Tuning</b>	Factory	Factory
<b>Gain</b>	<b>5.14 dBi</b>	<b>5.14 dBi</b>
<b>Maximum Power</b>	10 Watts	10 Watts
<b>Impedance (Nom.)</b>	50 Ohms	50 Ohms
<b>DC Grounding</b>	Yes	Yes
<b>Polarisation</b>	Vertical	Vertical
<b>H-Plane</b>	360° Omnidirectional	360° Omnidirectional
<b>Cable</b>	50 cm of RG58 low loss cable side exits	
<b>Connector</b>	TNC Male fitted <i>(Other connectors are available)</i>	
<b>Height</b>	55 cm	38 cm
<b>Weight</b>	220 grams	320 grams
<b>Mounting</b>	Secure into any bracket with 12.7 mm (1/2") min diameter hole using the stainless steel nut and washer at the base	Secure the 10 cm diameter PVC flange base to the roof, floor or any flat surface using 2 screws