



### Key Features

- GPS active antenna
- Built in LNA
- GSM compatible
- Compact puck design
- Screw thread and adhesive base

### General Description

The Tango 19 comes with a screw base that requires through-hole mounting with its intended mounting surface. Along with its adhesive base, this dual mounting mechanism provides a very firm method of mounting that should allow permanent fixing for many years.

The Tango 19 is a combination antenna. This means it has two antennas built into a single package. One of these is an active GPS antenna with a Low Noise Amplifier (LNA) to boost performance and provide strong satellite signal strength. Within the same package, there is a passive 1-2dBi Gain Quad Band GSM antenna, allowing for worldwide use.

Supplied with a 2 x 3 meter RG174 cable and SMA male connectors on both cables as standard (1x cable for each antenna). Siretta welcomes custom cable lengths and connectors with volume orders. Please send your customised enquiries to [sales@siretta.co.uk](mailto:sales@siretta.co.uk).

### Additional Considerations

- 100% waterproof antenna
- Dual mount provides a firm fix to its surface
- 28dB LNA gain
- Quad band GSM compatible so is capable of worldwide use
- 46 x 14.5mm puck shape design

Rev 1.0

### Dielectric Antenna

Impedance:	50 ohm
Peak gain:	> 3dBi (based on 7 x 7cm groundplane)
Gain coverage:	> -4dBi at -90° < 0 < +90° (over 75% volume)
VSWR:	1.5:1
Centre frequency:	1575.42 ± 3MHz
Bandwidth:	± 5MHz
Polarization:	RHCP

### GSM Antenna

Impedance:	50 ohm
Typical gain:	2dBi ± 1dBi @ 850MHz 2dBi ± 1dBi @ 900MHz 1dBi ± 1dBi @ 1800MHz 1dBi ± 1dBi @ 1900MHz
VSWR:	2.0:1
Centre frequency:	850/900/1800/1900MHz

### Key Specifications - LNA/Filter

LNA gain (without cable):	28dBi typical
Noise figure:	1.5dB
VSWR:	<2.0
DC voltage:	2.7/3.0/3.3/3.5/5.0/3.0 ~ 5.0V
DC current:	11mA max
Filter out band attenuation (f0 = 1575.42MHz):	7dB min f0 ± 20MHz 20dB min f0 ± 50MHz 30dB min f0 ± 100MHz

### Ordering Details

Part Number	Description
TANGO19/3M/SMAM/SMAM/S/S/20	Combined GPS/GSM Quad Band Antenna, 3m Cable, SMA Male Connector

### Key Specifications - Mechanical

Dimensions:	Φ 46 x 14.5mm
GPS cable:	3m RG174
GSM cable:	3m RG174
GPS connector:	SMA male
GSM connector:	SMA male
Mounting method:	Screw (Hole/Roof)

### Key Specifications - Environmental

Working temperature:	-40 to +85°C
Storage temperature:	-45 to +85°C
Vibration:	Sine sweep 1g (0-p) 10 ~ 50 ~ 10Hz each axis
Relative humidity:	85 ~ 100%RH
Weatherproof:	100% waterproof