



## Tango 22

Combined 2G (GPRS)/3G/WiFi & GPS Puck Antenna



### Key Features

- 2G, 3G, GPS & WiFi combined
- Low profile design
- 2dBi peak gain

### General Description

The Tango 22 combines 3 separate antennas into one compact and low profile package, capable of Quad band GPRS 2G, 3G WiFi & GPS.

Designed for applications that can benefit from an 'all-in-one' solution rather than having to install three separate antennas, creating a hassle-free solution where the 3 main RF bands are required.

Common applications are automotive tracking, vending machines and utility metering.

Supplied as standard with SMA connectors but alternative cable lengths or connector types can be specified for volume orders.

### Additional Considerations

- Ideal for 'street furniture'
- Combination design saves on cost and installation of additional antennas
- Meets all EU compliance criteria for electronic goods





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### Electrical Specifications

#### GSM Antenna

|                  |                              |
|------------------|------------------------------|
| Frequency Range: | 824 - 960MHz<br>1710-2170MHz |
| VSWR:            | ≤2.5                         |
| Peak Gain:       | 2dBi                         |
| Polarization:    | Linear                       |
| Impedance:       | 50 Ohm                       |

#### GPS Dielectric Antenna

|                   |            |
|-------------------|------------|
| Centre Frequency: | 1575.42MHz |
| VSWR:             | <1.3       |
| Gain:             | 2dBic      |
| Polarization:     | RHCP       |
| Impedance:        | 50 Ohm     |

#### GPS LNA

|                              |  |
|------------------------------|--|
| Gain:                        | 28dB   |
| Noise figure:                | <1.5   |
| Filter out band attenuation: | 12dB min f0+50MHz ± 1dB<br>16dB min f0-50MHz ± 1dB |
| Supply voltage:              | 2.2 ~ 5V DC  |
| DC current:                  | 5 ~ 15mA   |
| VSWR:                        | <2.0   |

### Mechanical Specifications

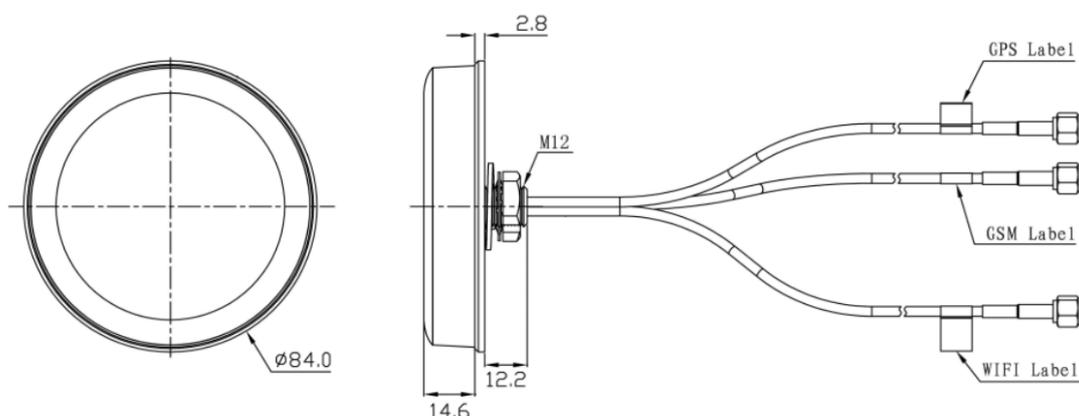
|                             |   |
|-----------------------------|---|
| Dimensions:                 | L84 Ø x H16mm                               |
| Cable:                      | RG174                                       |
| Connector:                  | 2x SMA Male<br>1x SMA Male Reverse Polarity |
| Mounting:                   | M12 Screw                                   |
| Maximum Material Thickness: | 6.5mm                                       |

### Environmental Specifications

|                              |             |
|------------------------------|-------------|
| Operating temperature range: | -40 - +85°C |
| Relative Humidity:           | -Up to 95%  |

### WiFi Antenna Specifications

|               |                  |
|---------------|------------------|
| Frequency:    | 2400 ~ 2483.5MHz |
| VSWR:         | ≤1.63            |
| Gain:         | 3dBi             |
| Impedance:    | 50 Ohm           |
| Polarization: | Linear           |

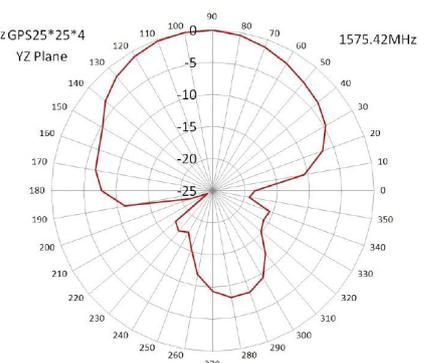
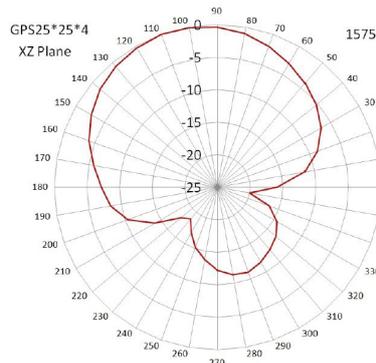
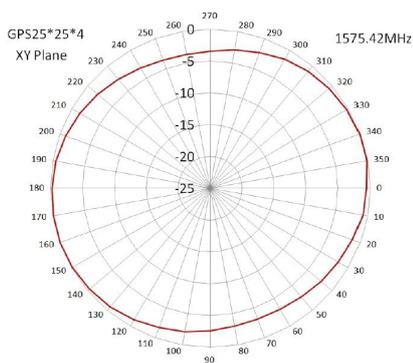




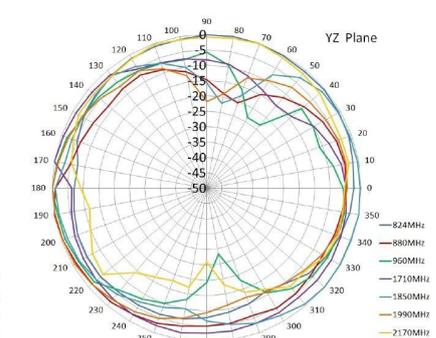
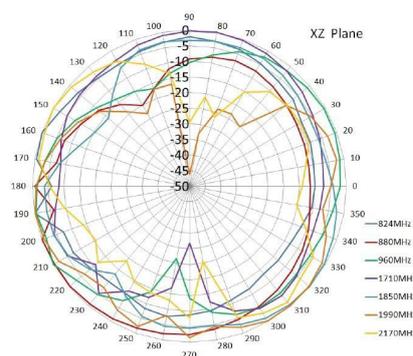
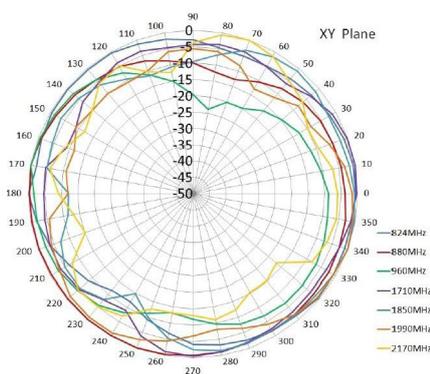
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### GPS Antenna

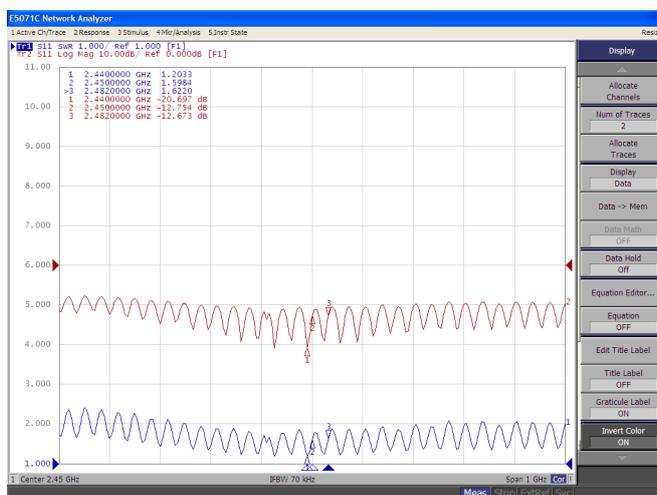


### GSM Antenna



### WiFi VSWR/RL

based on 3M SMA



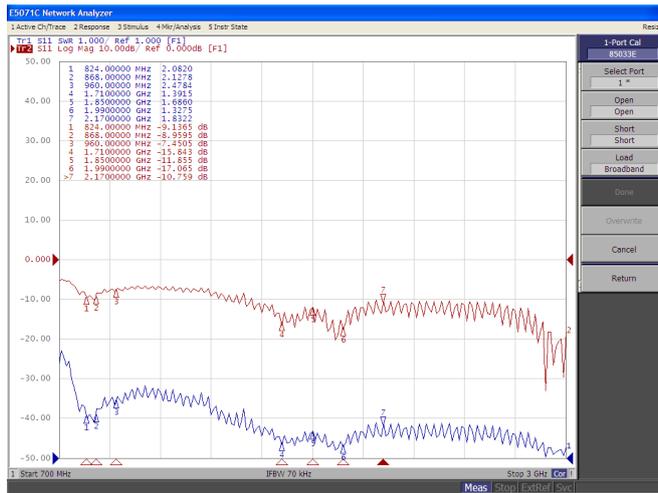


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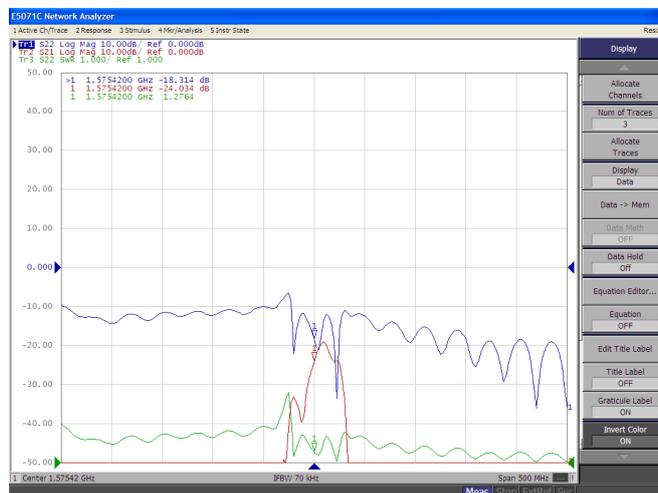
### GSM VSWR/RL

based on 3M SMA



### GPS VSWR/RL

based on 3M SMA



## Ordering Details

Part Number

Description

TANGO22/2.5M/SMAM/SMAM/RPSMAM/26

Combined 2G GPRS/3G (SMA) & WiFi (SMA) & GPS(RP SMA) Puck Antenna

TANGO22/3M/SMAM/SMAM/SMAM/26

Combined 2G GPRS/3G & WiFi & GPS Puck Antenna

Registered in England No. 08405712  
VAT Registration No. GB163 04 0349

Siretta Ltd  
Basingstoke Road  
Spencers Wood  
Reading  
Berkshire RG7 1PW

sales  
fax  
email  
web

+44(0)118 976 9014  
+44(0)118 976 9020  
sales@siretta.com  
www.siretta.com