

Tango 15 Low Profile, GSM/GPS Combined Antenna

Key Features

- Combined GSM & GPS Functionality
- Quad Band GSM/GPRS & 3G
- Screw/Through-Hole Mount Antenna
- GSM Gain 2.5dBi; GPS LNA Gain 25dB



Additional Considerations

- · Compatible worldwide with any cellular GSM application
- · Perfect for covert applications
- Vandal resistant
- Dual mounting adhesive and screw mount
- Blue heat shrink for GPS cable
- Black heat shrink for GSM/GPRS/ **UMTS** cable

General Description

The Tango 15's are a Low profile, robust and vandal proof range of antennas suitable for outdoor equipment like vending machines, traffic light systems and also automotive and many other types of GPS tracking applications. The Tango 15 is 95mm in diameter and only 18mm high.

It is IP65 rated, comes with double sided sticky pad shaped to the antenna and forms a good seal between antenna and the equipment it is mounted to.

The Tango 15 is designed for covert applications where the user wishes to keep their antenna out of sight from unwanted eyes. Operating on GSM & 3G, the Tango 15 works well with various kinds of telemetry equipment, such as Siretta's Zeta and the Zoom terminal series. This antenna combines an active GPS antenna with an LNA (Low Noise Amplifier) so it can be used with GPS applications as well as cellular. Its bolt through base allows the antenna to be securely fixed to the roof of vehicles and its IP65 rating makes it more than suitable for the outdoors.

With an M12 bolt it can be used with a mounting hole of between 13-20mm. The Tango 15 is a solidly made antenna to last for years and is available with various lengths of cable and connector types.

Rev 11

Siretta Ltd Basingstoke Road Spencers Wood Reading Berkshire RG7 1PW

+44(0)118 976 9014 sales +44(0)118 976 9020 email sales@siretta.co.uk www.siretta.co.uk web

fax



Tango 15 Low Profile, GSM/GPS Combined Antenna

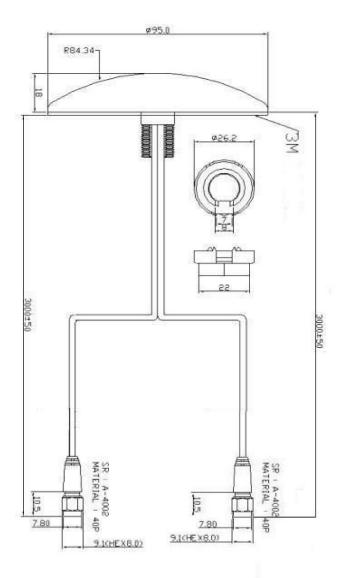
Key Specifications - Electrical

VSWR: Average GSM Gain 2.5dB GPS (LNA) Gain 25dB Voltage and supply 3 - 5V DC current: 25mA typica Operating GSM/GPRS 890-960 /1710-1880MHz frequency: 3G 2100MHz GPS 1575.42MHz	Temperature range:		-40 to +85°C
Average GSM Gain 2.5dB GPS (LNA) Gain 25dB Voltage and supply 3 - 5V DC current: 25mA typica Operating frequency: GSM/GPRS Age 2100MHz GPS 1575.42MHz	Impedance:		50ohm
GPS (LNA) Gain 25dE Voltage and supply 3 - 5V DC current: 25mA typica Operating GSM/GPRS ggs 2100MHz GPS 1575.42MHz	VSWR:		<2.0:1
Voltage and supply current:3 - 5V DC 25mA typicaOperating frequency:GSM/GPRS890-960 /1710-1880MHz 2100MHzGPS1575.42MHz	Average GSM Gain		2.5dBi
current: 25mA typica Operating GSM/GPRS frequency: 3G GPS 1575.42MHz	GPS (LNA) Gain		25dB
frequency: 3G 2100MHz GPS 1575.42MHz	0 11 5		3 - 5V DC 25mA typical
GPS 1575.42MHz	Operating	GSM/GPRS	890-960 /1710-1880MHz
	frequency:	3G	2100MHz
Polarisation: GSM – Vertical / GPS – RHCF		GPS	1575.42MHz
	Polarisation:		GSM – Vertical / GPS – RHCP

Key Specifications - Mechanical

Dimensions:	ø95 x18mm
Cable:	RG174 1m/3m
Connector:	SMA, TNC, FME BNC, N type as required

Dimensions



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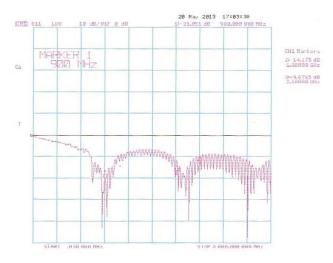
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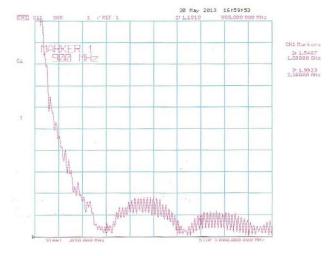
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Test Reports

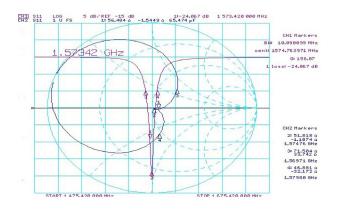
GSM Return Loss Graph



GSM VSWR Graph



GPS Return Loss Graph



Ordering Details

Part Number	Description
TANGO15/1M/SMAM/S/S/24	GSM/GPS Combined Bolt Through Antenna, 1M Cable, SMA Male Connector
TANGO15/3M/SMAM/S/S/24	GSM/GPS Combined Bolt Through Antenna, 3M Cable, SMA Male Connector

A member of the Olancha Group Ltd Registered in England No. 08405712 VAT Registration No. GB163 04 0349 Siretta Ltd Basingstoke Road Spencers Wood Reading Berkshire RG7 1PW

sales

email

web

fax

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