Siretta

Enabling Industrial IoT

Tango 20A
GPS & GLONASS Puck Antenna

Key Features

- GPS & GLONASS
- Rubber seal gasket
- 28dB LNA Gain

General Description

The Tango 20A is a GPS & GLONASS dual system antenna. It comes with a rubber seal gasket for greater weatherproof protection and is well suited to the outdoor environments.

The antenna is supported by the LNA which has a 28dB gain to uplift the dielectric antenna signal.

Common applications are commercial vehicle roofs, and exterior vending machines where the screw mount allows the antenna to be fixed in place.

Alternative cable lengths or connector types can be specified for volume orders.

Additional Considerations

- Compact size
- Vandal resistant

T
Through

GPS
Position

GNSS
Position

Dielectric Antenna

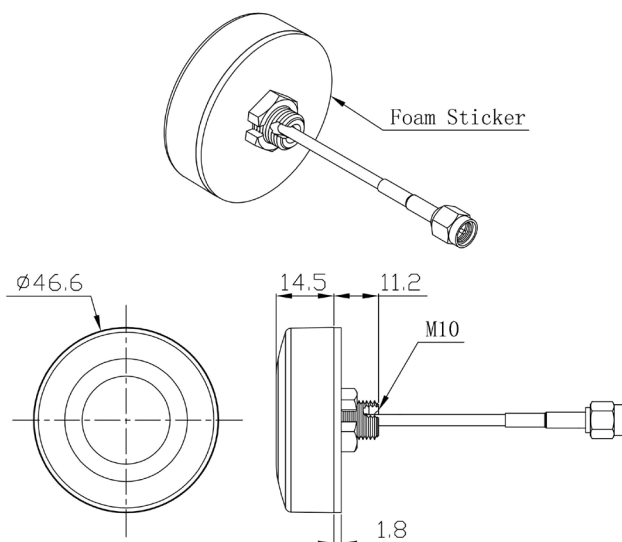|	
Frequency Range:	1575-1615MHz
V.S.W.R:	<1.5
Polarization:	RHCP
Gain:	2dBic (Zenith)
Impedance:	50 Ohm
Axial Ratio	3dB (max)

Mechanical Specifications

Dimensions:	Ø 25 x H14.5mm
Cable:	RG174
Connector:	SMA Male
Material:	ABS
Mounting Method:	Adhesive

GPS Antenna

Peak Gain:	28dB
Noise Figure:	<1.5
Filter Insertion Loss:	<3dB
Ex-band Attenuation	35dB@CF + 50MHz/50dB@CF-100MHz
Supply Voltage:	2.2-5V DC
Current Consumption	16-32mA
VSWR	<2.0

Environmental Specifications

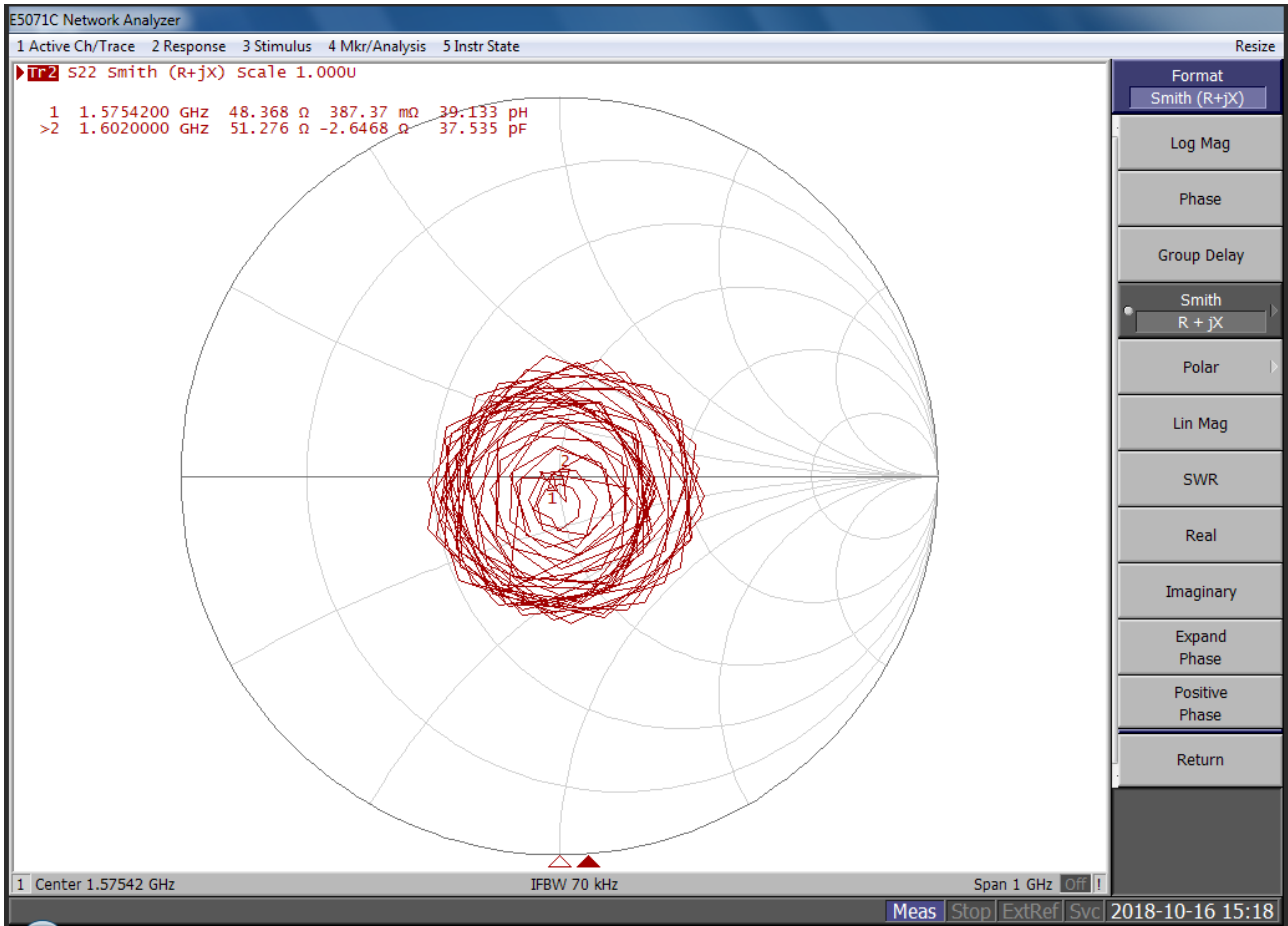|	
Operating Temperature:	-40 - +85°C
Relative Humidity:	Up to 95%

Foam Sticker

Ø46.6

14.5 11.2

M10

1.8

Tango 20A
GPS & GLONASS Puck Antenna

Smith Chart

Rev 1.6

Radiation Patterns
XZ Plane

GPS&GLONASS

XZ Plane

— 1575.42MHz
— 1595MHz
— 1602MHz
— 1615.5MHz

YZ Plane

GPS&GLONASS

YZ Plane

— 1575.42MHz
— 1595MHz
— 1602MHz
— 1615.5MHz

XY Plane

GPS&GLONASS

XY Plane

— 1575.42MHz
— 1595MHz
— 1602MHz
— 1615.5MHz
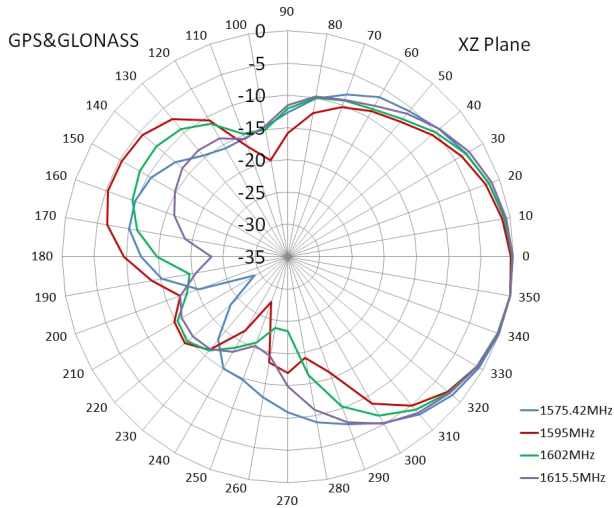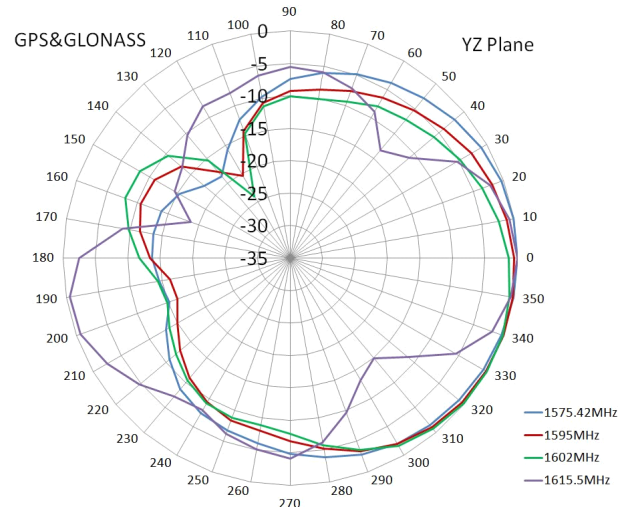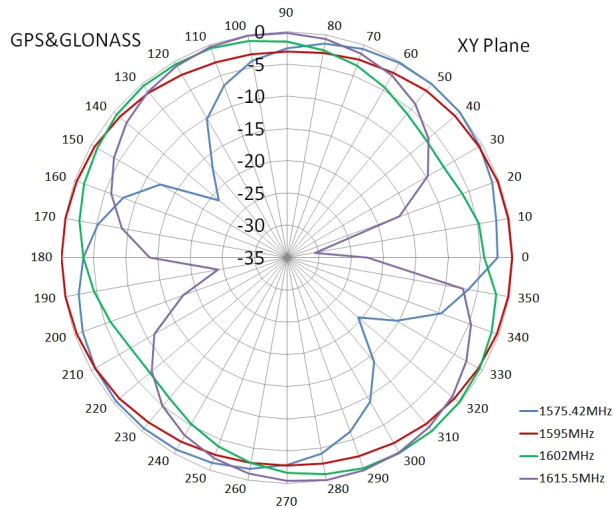
Ordering Details

Part Number	Description
TANGO20A/3M/SMAM/S/S/26	GPS & GLONASS Puck Antenna