

Vandal Resistant Body Mount GPS/GSM Combo Antenna



Key Features

- 2dBi GSM gain, 28 ± 2 dBi gain
- · Quad band GSM, 3G and ISM compatible
- · GPS antenna combined
- IP67 rated
- Rugged and durable
- Through hole mount
- · O ring seal prevents water ingress
- RoHS compliant

General Description

The TANGO16 is an IP67 rated and fully weatherproof combination GSM/GPS antenna intended for outdoor equipment such as vending machines and similar. The TANGO16 has a GSM gain of 2dBi, the GPS antenna has an LNA gain of 28dB and a V.S.W.R of <2.0.

The TANGO16 mounts via an M12 stud and is 50mm diameter at its base and 48mm tall. The circular rubber O ring on the bottom face is to ensure that water does not seep through the bolt hole when secured to the equipment using the antenna.

The TANGO16 is a robust and well-made antenna that has a great performance and will last for years in an outdoor environment.

Moisture Proof

The device should satisfy the electrical characteristics specified in the table 'Key Specifications - Dieletric Anntena' after exposed to the temperature $40\pm2^{\circ}$ C and the relative humidity $90\sim95\%$ RH for 96 hours and $1\sim2$ hours recovery time under normal condition.

Vibration Resist

The device should satisfy the electrical characteristics specified in the table 'Key Specifications - Dieletric Antenna' after applied tot the vibration of 10 to 55MHz with amplitude of 1.5mm for 2 hours each in X, Y, and Z directions.

Drop Shock

The device should satisfy the electrical characteristics specified in the table 'Key Specifications - Dieletric Antenna' after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

High Temperature Endurance

The device should satisfy the electrical characteristics specified in the table 'Key Specifications - Dieletric Antenna' after exposed to the temperature $80\pm5^{\circ}$ C for 24 ± 2 hours and $1\sim2$ hours recovery time under normal temperature.

Low Temperature Endurance

The device should satisfy the electrical characteristics specified in the table 'Key Specifications - Dieletric Antenna' after ex[psed to the temperature -40 \pm 5°C for 24 \pm 2 hours and 2 hours recoveru time under normal temperature.

Temperature Cycle Test

The device should atisfy the electrical characteristics specified in the table 'Key Specifications - Dielectric Antenna' after exposed to the low temperature -25°C and high temperature +85°C for 30±2 minutes each by 5 cycles and 1~2 hours recovery time under normal temperature.

Rev 1.2



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GPS Antenna - Dieletric Antenna

Center frequency:	1575.42 ± 1MHz
Bandwidth:	CF ± 5MHz
Polarization:	RHCP
Gain:	5dBic (Zenith)
V.S.W.R:	<1.5
Impedance:	50ohm
Axial ratio:	3dB (max)

Key Specifications - GSM Antenna

Frequency range:	824 ~ 960MHz 1710 ~ 2170MHz
V.S.W.R:	<2.0
Polarization:	Linear
Impedance:	50ohm

Gain

ISM	
868MHz:	1.5dBi
915MHz:	2dBi
GSM	
850MHz:	0.93dBi
900MHz:	1.41dBi
1800MHz:	1.95dBi
1900MHz:	1.95dBi
3G	
2100MHz:	2.33dBi

GPS Antenna - LNA

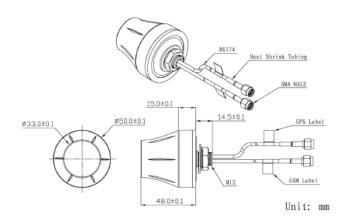
Gain:	28 ± 2dB
Noise figure:	<1.5
Ex-band attentuation:	12dB @ CF + 50MHz 16dB @ CF - 50MHz
V.S.W.R:	<2.0
Supply voltage:	2.2 ~ 5V DC
Current consumption:	5 ~ 15mA

Key Specifications - Environmental

Operating temperature:	-40 to +85°C
Relative humidity:	Up to 95%
Ingress protection:	IP67 (exclude cable outlet)
Vibration:	10 to 55Hz with 1.5mm amplitude 2 hours
Environmentally friendly:	RoHS compliant

Key Specifications - Mechanical

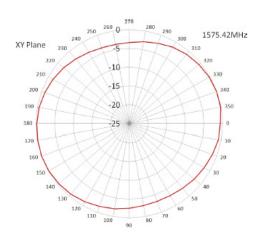
Cable:	RG174
Connector:	SMA/MCX/FAKRA or others
Material:	ABS
Mounting method:	Screw

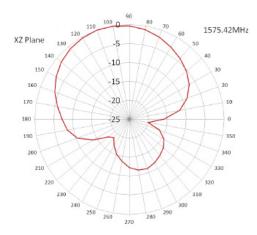


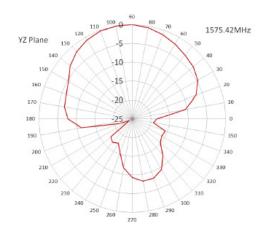


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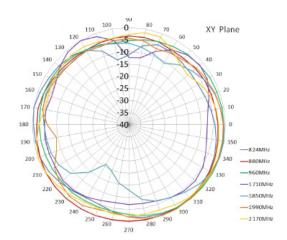
GPS Radiation Patterns

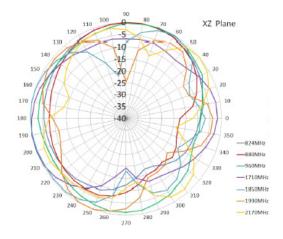


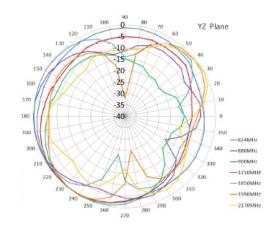




GSM Radiations Patterns







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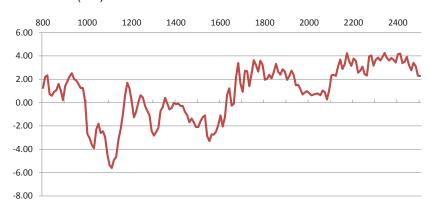
fax



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Test Reports

Peak Gain (dBi)

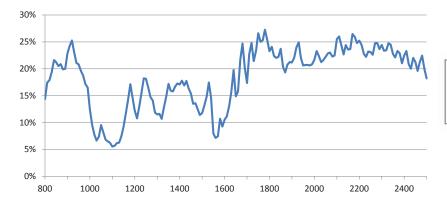


UL Tested (Basingstoke, UK)

Part: TANGO16/3M/SMAM/SMAM/S/S/26

Ref No: 10339609JD01 Date: 28/05/2014

Efficiency %



UL Tested (Basingstoke, UK)

Part: TANGO16/3M/SMAM/SMAM/S/S/26

Ref No: 10339609JD01 Date: 28/05/2014

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