



Tango 47

4G/LTE and GPS Combined Panel Mount Antenna



General Description

The Tango 47 antenna is a good solution for any kind of on-the-move vehicle to be able to access GPS and 3G/4G cellular networks reliably, with as much bandwidth as possible.

Designed for systems that require both GPS and telephony/internet connectivity; having two antennas in one package saves on both installation time/cost and having to buy two antennas.

The antenna has a 12mm zinc plated steel backing plate, which is robustly built for deploying on the roof of the intended vehicle.

Supplied as standard with SMA male connectors on 2.5m of cable. Alternative connectors and cable lengths may be specified for volume orders.

Key Features

- 3G/4G/GPS heavy duty screw mount
- Designed for public transport

Additional Considerations

- Weather resistant design
- High gain GPS antenna
- Cost saving combined function antenna





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Electrical Specifications

4G Antenna

VSWR:	2.0:1
Impedance:	50 Ohm
Peak Gain:	2dBi
Frequency:	850/900/1800/1900/2100/2700MHz

GPS Dielectric Antenna

Center Frequency:	1575.42 MHz
VSWR:	1.5:1
Impedance:	50 Ohm
Band Width:	+5 MHz
Peak Gain:	3dBi based on 7x7cm ground plane
Gain Coverage:	4dBi at 90°
Polarization:	RHCP

LNA/Filter

LNA Gain (Without cable):	28dBi (Typical)
Noise Figure:	1.5dB
VSWR:	<2.0
DC Voltage:	2.7 to 5.0V
DC Current:	11 Max mA

Mechanical Specifications

Dimensions:	H16 x 75mm Ø
Cable:	RG174
Connector:	SMA Male
Mounting:	Screw with rubber pad

Environmental Specifications

Working Temperature:	-40°C - +85°C
Storage Temperature:	-45°C - +100°C
Weatherproof:	100%



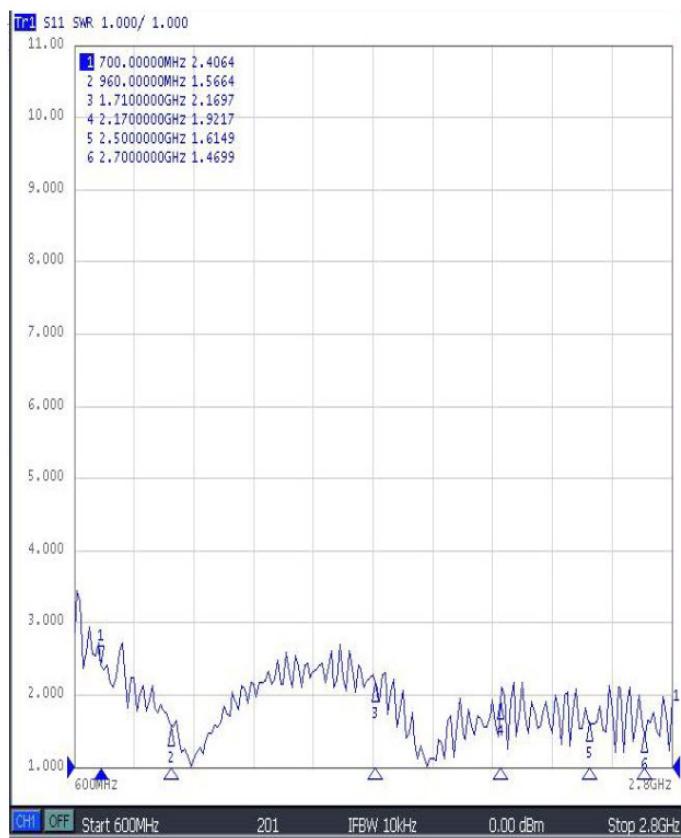
Enabling Industrial IoT



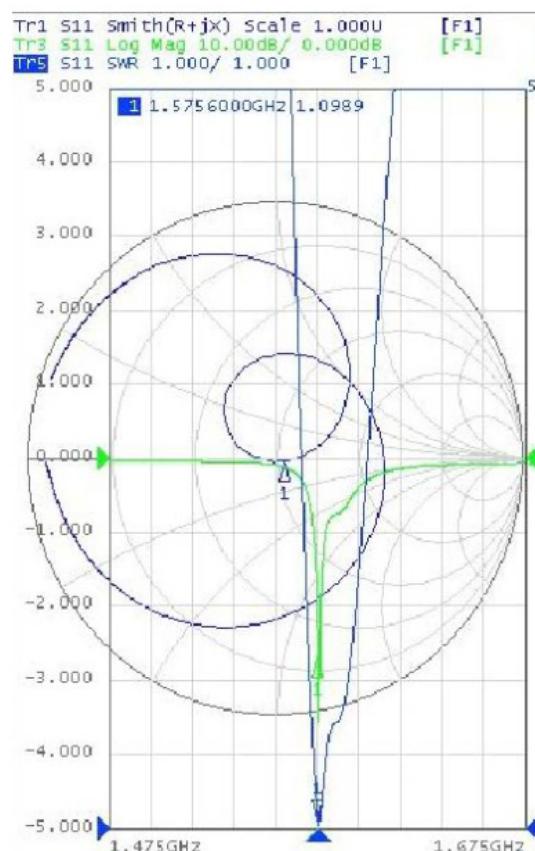
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VSWR



Impedance Smith Chart



Ordering Details

Part Number	Description
TANGO47/2.5M/SMAM/SMAM/S/S/17	4G/LTE and GPS Combined Panel Mount Antenna, SMA Male Connector