

# ANT-14

*High performance GNSS and 2G/3G/4G antenna*

## GENERAL DESCRIPTION

The ANT-14 is a combined high performance GNSS (GPS/GLONASS/GALILEO/BeiDou) and 2G/3G/4G (GSM/ CDMA/ PCS/DCS/UMTS/LTE) antenna ideally suited for use with FOX3-3G and FOX3-4G Series. Its high quality low profile covert housing can be attached onto the glass or onto the dashboard. This combination of a high gain GNSS antenna and a 4G (LTE) antenna is ideal for those applications that require durability, small size, reliable reception and transmission crossing through different mobile networks.

The cellular antenna function covers all main 4G (LTE) and 2G/3G (cellular) bands worldwide. It has been designed to work equally well when mounted on glass or on plastic. It is not suitable for mounting on metal.

The GNSS function means increased accuracy and reliability of location. A front-end SAW protects the LNA from burnout by nearby out of band cellular transmissions and also significantly reduces any compression and consequent reduction of sensitivity. It comes with automotive approved high grade 3M double sided tape for quick and easy mounting.



## INTERFACES



## ANTENNA SPECIFICATION

### GPS/GLONASS/GALILEO/BeiDou

Operating Frequency:	<b>GPS/Galileo:</b> 1575.42±3 Mhz; <b>GLONASS:</b> 1602±0.5 Mhz <b>Beidou<sup>1)</sup>:</b> 1561.098±2.046 MHz
High LNA Gain:	up to 32 dB
Antenna Gain:	30 ± 2 dB
Low Noise:	1.5 dB max

### 2G/3G/4G

Operating Frequency:	<b>GSM</b> (850, 900, 1800, 1900 Mhz) <b>UMTS/WCDMA</b> (850, 900, 1900, 2100 Mhz) <b>LTE</b> (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 20, 25, 38)
Return Loss (dB) <sup>2)</sup> :	< -5
Polarization:	Linear
Maximum Input Power:	5W

### Other

Antenna Dimensions:	62.8mm x 68mm x 12mm
Mounting:	Glass and Plastic Mount
Casing / Colour:	ABS / Black
Power Input :	3.3V DC
Temperature range:	-40°C - +85°C
Power Consumption:	GPS: 12 mA max.
Cable Length:	2.5m RG174 (x2 Cables)
Weight:	100 grams
Impedance:	50 Ω Nominal
Humidity:	65°C 95% RH
Connectors/Colours:	FAKRA removable/ bordeaux (cellular), blue (GNSS)

<sup>1)</sup> with up to 3dB reduced gain

<sup>2)</sup> Note: includes 3 metre RG174 and FAKRA

## MOUNTING INSTRUCTIONS

- Designed for on-glass, on-plastic and non-metal mounting surfaces.
- Recommended installation position on front windscreen, on dashboard
- Antenna position at least 20 mm from any metal surface.
- Installation location should be dried from oil, water etc.

## CONTACT

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