

Smarteq™ Ant Combination Antenna

Combination Antenna – GNSS, Cellular 2G/3G/4G

710737



Description

An aerodynamic, multiband antenna covering GNSS and cellular frequencies for vehicle roof mount.

Technologies

- 2G/3G/4G
- GNSS: GPS, Glonass, Galileo, Beidou

Features

- Slim and aerodynamic design
- Frequency 800-960 MHz and 1710 – 2690 MHz
- Optional rod: 27-600MHz
- Active LNA 30dB
- IP67



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Ant is a combination antenna for vehicle roof mount. The antenna includes a cellular antenna, GNSS antenna with a pre-filtered low noise amplifier, and an option to mount an external rod. A wide range of rods for different frequencies are available. Ant is perfect for fleet management, track and trace, navigation, cargo handling. It has a slim and aerodynamic design and fits well on HGVs and smaller vehicles, like taxis, pick-ups, and vans.

Features

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- Frequency 800-960 MHz and 1710- 2690 MHz
- Optional rod: 27-600MHz
- Active LNA 30dB
- IP67

Applications

- Intelligent Transportation Systems (ITS)
- Fleet management
- Safety/security systems
- Logistics
- Other telematics applications

Certifications



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Standard Configurations

Part Number	Connector Type
710737	Cellular: FME-m GPS: SMA-m Optional Rod: FME-f

Electrical Specifications

Frequency Ranges	Cellular: 890-960 MHz 1710-2690 MHz	Optional Rod: 27-600 MHz
VSWR	Cellular: 2:1	Optional Rod: Depending on selection of rod
Gain	2.15 dBi	
Nominal Impedance	50Ω	
Polarization	Vertical	
Max. Power	Cellular: 10W	Optional Rod: 25W

GNSS

Frequency Ranges	1559-1610 MHz	
VSWR	< 2.0:1	
Gain Passive (Peak Gain)	1585 MHz GPS Glonass Beidou Galileo	4.5 dBic 3.0 dBic 2.0 dBic 1.5 dBic 2.0 dBic
Gain Active	30 ± 1dB	
Noise Figure	< 2.5dB including pre-filter	
Out of Band Rejection	< 960 MHz > 1710 MHz	> 60dB > 60dB
Compression Point	-20 dBm	
Supply Voltage	2.4-6 V	
Current Consumption	8-10mA	
Nominal Impedance	50Ω	
Polarization	RHCP	

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Mechanical and Environmental Specifications

Dimensions	108 x 80 x 60mm (without optional rod)	
Installation	Hole mount with center screw Material thickness ≤ 3mm Hole dimension Ø19mm	
Weight	170g	
Cable	RG316, Brown	
Cable Length	Cellular	200mm
	GPS	130mm
	Optional Rod	150mm
Material	Cover	PC-PBT
	Base Plate	Aluminum alloy
	Seal	Dryflex
Color	Black	
Thread for Optional Rod	M6	
Operating / Storage Temperature	-40°C to +85°C	
IP Class	IP67	
Other	Certified according to 2014/53/EU Radio Equipment Directive (RED)	

CONTACT US

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this product, contact your
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