

DATASHEET COMBINATION ANTENNA

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 790-960 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

- Slim and aerodynamic design
- Frequency 790-960 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



SPECIFICATIONS

Smarteq™ Ant Combination Antenna

Combination Antenna – GNSS+, Cellular



Standard Configurations

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

Electrical Specifications

Frequency Ranges	Cellular: 790-960 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 GPS Optional Rod	200mm 130mm 150mm
Material	Cover Base Plate Seal	PC-PBT Aluminum alloy 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

For more information about this product, contact your sales representative or visit
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