# Smarteq<sup>™</sup>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







### Smarteq<sup>™</sup> Ant Combination Antenna Combination Antenna – GNSS+, Cellular 2G/3G/4G

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, pickups, and vans.

#### **Features**

- Slim and aerodynamic design
- 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





**SPECIFICATIONS** 

Smarteq<sup>™</sup> 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: 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	4.5 dBic	
	GPS	3.0 dBic	
	Glonass	2.0 dBic	
	Beidou	1.5 dBic	
	Galileo	2.0 dBic	
Gain Active	30 <u>+</u> 1dB		
Noise Figure	< 2.5dB including pre-filter		
Out of Band rejection	< 960 MHz	> 60dB	
	> 1710 MHz	> 60dB	
Compression point	-20 dBm		
Supply Voltage	2.4-6 V		
Current Consumtion	8-10mA		
Nominal Impedance	50Ω		
Polarization	RHCP		

### SPECIFICATIONS

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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	(FOILL
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 > pctel.com/antenna-products

### Solving Complex Wireless Challenges

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