

# Smarteq™ Ant™ Antenna

Combination Antennas - GNSS + Cellular

72488-1, 72488-L1



## Description

An aerodynamic, multiband antenna covering GNSS and cellular frequencies for intelligent transportation and Industrial IoT applications.

## Technologies

- 2G/3G
- GPS

## Features

- Slim and aerodynamic design
- Optional rod: 27-600MHz
- Active LNA +26dB
- IP67





## Smarteq™ Ant™ Antenna

### Combination Antennas - GNSS + Cellular

The Smarteq™ Ant™ is a combination antenna for vehicle roof mount. The antenna includes a cellular antenna, GPS antenna with low noise amplifier and an option to mount an external rod. A wide range of rods for different frequencies are available.

The Smarteq™ Ant™ antenna can be used in different applications depending on which system it is integrated with: fleet management, safety/security systems, logistics and other telematics applications. It has a slim and aerodynamic design and makes it perfect to use both on HGVs and smaller vehicles, like taxis, pick-ups, vans etc.

#### Features

- Cellular: 890-960MHz and 1710-1880MHz
- GPS: 1575.42MHz
- Optional rod: 27-600MHz
- Slim and aerodynamic design
- IP67 class
- Hole mounted , Ø19mm

#### Applications

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

#### Certifications



## SPECIFICATIONS



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### Standard Configurations

| Model    | Pigtail Direction | Connectors |        |              |
|----------|-------------------|------------|--------|--------------|
|          |                   | Cellular   | GPS    | Optional Rod |
| 72488-1  | Straight          | FME(m)     | SMA(m) | FME(f)       |
| 72488-L1 | Left              | FME(m)     | SMA(m) | FME(f)       |

### Electrical Specifications

| All Models       | Cellular                   | GPS                                       | Optional Rod |
|------------------|----------------------------|-------------------------------------------|--------------|
| Frequency Ranges | 890-960MHz<br>1710-1880MHz | 1575.42MHz                                | 27-600MHz    |
| Impedance        | 50Ω                        |                                           |              |
| Polarization     | Vertical                   | RHCP                                      | Vertical     |
| VSWR             | 2:1                        | 1.5:1                                     |              |
| Gain             | 2.15dBi                    | 5dBic @ zenith (Passive)<br>27dB (Active) |              |
| Max. Power       | 10W                        |                                           | 25W          |
| Supply Voltage   | 3.3-5V                     |                                           |              |

### Mechanical and Environmental Specifications

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| All Models                      |                                                                                      |
| Dimensions (L x W x H)          | 108 x 80 x 60mm (without optional rod)                                               |
| Installation                    | Hole mount with center screw<br>• Material thickness ≤ 3mm<br>• Hole dimension Ø19mm |
| Weight                          | 170g                                                                                 |
| Cable Type                      | RG316, brown                                                                         |
| Cable Length                    | Cellular 200mm<br>GPS 130mm<br>Optional Rod 150mm                                    |
| Material                        | Cover: PC-PBT<br>Base Plate: Aluminum alloy<br>Seal: Dryflex                         |
| Color                           | Black                                                                                |
| Thread for Optional Rod         | M6                                                                                   |
| Operating / Storage Temperature | -40°C to +85°C                                                                       |
| IP Class                        | IP67                                                                                 |
| Certifications                  | RoHS compliant; Certified according to 2014/53/EU Radio Equipment Directive (RED)    |



CONTACT US

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sales representative or visit  
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### Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for 29 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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