

# Smarteq™ SmartWing™ LTE GNSS Antenna

Combination Antennas – GNSS/Cellular

710290, 710351



## Description

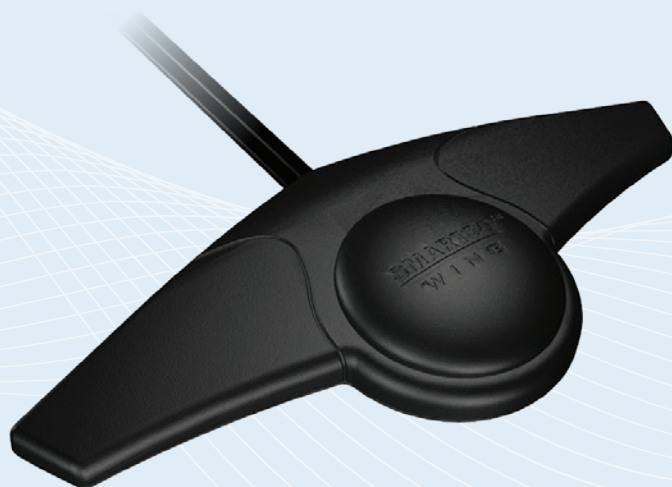
The slim and discreet design of the Smarteq™ SmartWing™ LTE GNSS antenna makes it the perfect solution for vehicles when outside installation is not an option.

## Technologies

- GNSS
- GPS: L1
- Galileo: E1
- Glonass: L1
- Cellular LTE 2G/3G/4G

## Features

- Frequency
  - Cellular 790-960/1710-2690MHz
  - GNSS: 1575-1609MHz
- Gain: 2,15dBi
- Color: Black



## Smarteq™ SmartWing™ LTE GNSS Antenna

### Combination Antennas – GNSS/Cellular

The Smarteq™ SmartWing™ LTE GNSS is a combination antenna and the perfect solution for vehicles when outside installation is not an option. Discreet adhesive mounting on glass or plastic.

#### Features

- 2G / 3G / 4G
- LTE combination antenna with GNSS
- 790-960 / 1710-2170 / 2500-2690MHz;  
1575.42 / 1598.06-1609.31MHz (GPS: L1, Galileo: E1, Glonass: L1)
- Discreet adhesive mounting on glass or plastic
- Low noise figure

#### Applications

- Intelligent Transportation Systems
- V2V
- M2M

#### Certifications



## SPECIFICATIONS



# Smarteq™ SmartWing™ LTE GNSS Antenna

## Combination Antennas – GNSS/Cellular

### Electrical Specifications

#### Cellular

|                  |                                            |
|------------------|--------------------------------------------|
| Frequency Ranges | 790-960MHz<br>1710-2170MHz<br>2500-2690MHz |
| Impedance        | 50Ω                                        |
| Polarization     | Vertical                                   |
| VSWR             | ≤ 2.5:1                                    |
| Gain             | 2.15dBi                                    |
| Max power        | 10W                                        |

#### GNSS

|                       |                         |                                     |
|-----------------------|-------------------------|-------------------------------------|
| Frequency Ranges      | <b>GPS</b>              | 1575.42MHz                          |
|                       | <b>Glionass/Galileo</b> | 1598-1610MHz                        |
|                       | GPS: L1                 |                                     |
|                       | Galileo: E1             |                                     |
|                       | Glionass: L1            |                                     |
| Impedance             |                         | 50Ω                                 |
| Polarization          |                         | RHCP                                |
| VSWR                  |                         | ≤ 1.5:1                             |
| Gain                  |                         | 27dB                                |
| Noise Figure          |                         | < 1.4dB                             |
| Out of band rejection |                         | Low band: -28dB<br>High band: -48dB |
| Supply Voltage        |                         | 3.3-5V                              |

### Mechanical and Environmental Specifications

|                                   |                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------|
| Dimensions (L x W x H)            | 135 x 58 x 18mm                                                                                |
| Weight                            | ~110g                                                                                          |
| Cable                             | RG174, black, 2.5m,<br>Other cable lengths are available upon request.                         |
| Connectors                        | <b>Cellular</b> FME-f, SMA-m, FAKRA-f/D<br><b>GNSS</b> SMA-m, FAKRA-f/C                        |
| Material                          | ABS (housing)                                                                                  |
| Color                             | Black                                                                                          |
| Installation                      | Adhesive mount                                                                                 |
| Temperature (Storage / Operating) | -40°C to +85°C                                                                                 |
| IP Class                          | IP44                                                                                           |
| Compliance / Certifications       | This part is RoHS compliant. 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](https://pctel.com/antenna-products)**

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