

## Sencity Special Communication Antenna 92210003

### Description

Omni-directional Antenna  
Frequency Range 300-3800 MHz  
Vertical Polarization  
3-8.5 dBi Gain  
Small ground plane and excellent coverage



### Product Configuration

### Technical Data

#### Electrical Data

|                          | Band 1    | Band 2    | Band 3    | Band 4    |
|--------------------------|-----------|-----------|-----------|-----------|
| Frequency (MHz)          | 380 - 400 | 400 - 450 | 450 - 470 | 694 - 746 |
| VSWR                     | 1.7       | 1.7       | 1.7       | 1.7       |
| Impedance (Ohm)          | 50        | 50        | 50        | 50        |
| Gain (dBi)               | 3         | 4         | 5         | 6         |
| Composite power max (W)  | 50        | 50        | 50        | 50        |
| Ambient temperature (°C) | 50        | 50        | 50        | 50        |

|                          | Band 5    | Band 6      | Band 7      |
|--------------------------|-----------|-------------|-------------|
| Frequency (MHz)          | 746 - 960 | 1200 - 2700 | 3300 - 3800 |
| VSWR                     | 1.7       | 1.7         | 1.7         |
| Impedance (Ohm)          | 50        | 50          | 50          |
| Gain (dBi)               | 7         | 8           | 8.5         |
| Composite power max (W)  | 50        | 50          | 50          |
| Ambient temperature (°C) | 50        | 50          | 50          |

#### Ports

|              | Port 1                |
|--------------|-----------------------|
| Connector    | 4.3-10, jack (female) |
| Polarization | vertical              |
| DC grounded  | No                    |

#### Connections

|        | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Band 6 | Band 7 |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Port 1 | X      | X      | X      | X      | X      | X      | X      |

#### General Data

IMD level -150 dBc at carrier power 2x 43dBm

VSWR values are typical values.

Max. values:

380-410 MHz: 2.8 : 1

410-3800 MHz: 2.2 : 1

#### Mechanical Data

Dimensions (mm) 540 x 60 (Height x Diameter)  
Weight (kg) 0.5

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Ground plane (mm): 165x165x1.5

### Environmental Data

|                                                      |                           |
|------------------------------------------------------|---------------------------|
| Environmental conditions                             | outdoor                   |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant                 |
| WEEE 2012/19/EU                                      | no special marking needed |
| REACH 1907/2006/EC                                   | compliant                 |

Environmental conditions:

Operating temperature range: -40°C to +70 °C

Vibration: According to IEC 60721-3-4

Flammability: UL94

Water proofing: IP 65

Humidity: ETS 300 019-1-4. EN 302 085 (Annex A. 1.1)

Salt fog: According to IEC 68-2-11

Mounting (pole mount):

1) The antenna can be attached laterally at the tip of a tubular mast of 50.8 mm | 2.0 inches with two U-bolt brackets supplied.

2) The antenna can be attached laterally at the tip of a tubular mast with a pair of tension bands (please order separately).

Scope of Supply: U-bolt brackets, Mast diameter 50.8 mm | 2 inches

Anti-static protection:

All metal parts of the antenna as well as the clamps are grounded.

Lightning protection:

The antenna is not lightning protected.

Material:

Base: Weather-proof aluminum.

Radome: UV protected plastic.

Mounting kit, screws and nuts: Stainless steel.

### Related Products

734365 Tension Band 45-125mm

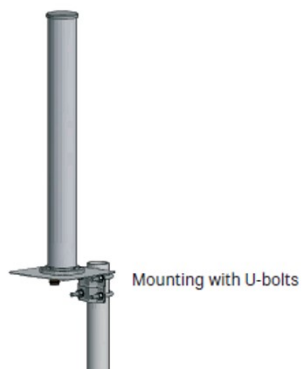
734364 Tension Band 120-140mm

Order separately.

### Related Documents

|                      |                |
|----------------------|----------------|
| Mounting instruction | DOC-0000871436 |
| Security instruction | DOC-0000278984 |
| Outline drawing      | DOU-00398570   |

### Additional Information



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