

## Sencity Special Communication Antenna 852628

### Description

2-Port Panel Antenna  
Frequency Range 380-500 MHz  
Dual Polarization (X-Pol)  
Half-power Beam Width 88°  
Gain 10.5 dBi



### Product Configuration

### Technical Data

#### Electrical Data

|                          | Band 1    | Band 2    |
|--------------------------|-----------|-----------|
| Frequency (MHz)          | 380 - 430 | 430 - 500 |
| VSWR                     | 1.5       | 1.5       |
| Impedance (Ohm)          | 50        | 50        |
| Gain (dBi)               | 10        | 10.5      |
| 3dB beamwidth (h) (°)    | 88        | 86        |
| 3dB beamwidth (v) (°)    | 37        | 32        |
| Composite power max (W)  | 500       | 500       |
| Ambient temperature (°C) | 50        | 50        |
| Front to back ratio (dB) | 20        | 20        |
| Port Isolation (dB)      | 40        | 35        |

#### Ports

|              | Port 1              | Port 2              |
|--------------|---------------------|---------------------|
| Connector    | 7/16, jack (female) | 7/16, jack (female) |
| Polarization | -45° slant          | +45° slant          |
| DC grounded  | Yes                 | Yes                 |

#### Connections

|        | Band 1 | Band 2 |
|--------|--------|--------|
| Port 1 | X      | X      |
| Port 2 | X      | X      |

#### General Data

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

#### Mechanical Data

Dimensions (mm) 1007 x 317 x 193 (Height x Width x Depth)  
Weight (kg) 10.5  
Windload frontal: 420 N at 150 km/h, lateral: 220 N at 150 km/h, Wind speed survival: 200 km/h

Packing size (mm): 1140x330x240

#### Environmental Data

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

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### Grounding:

The metal parts of the antenna including the mounting kit and the inner conductors are DC grounded.

### Ice protection:

Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

### Material:

Reflector screen: Weather-proof aluminum.

All screws and nuts: Stainless steel.

### Material Data

|                                |                                |
|--------------------------------|--------------------------------|
| Radome colour                  | grey                           |
| Radome material                | Glass Reinforced Plastic (GRP) |
| Back plate/base plate colour   | grey                           |
| Back plate/base plate material | Aluminium                      |

### Related Products

731651 Clamp 28-60mm

738546 Clamp 42-115mm

85010002 Clamp 110-220mm

85010003 Clamp 210-380mm

737978 Downtilt Kit

Order separately. For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit.

### Related Documents

|                      |                |
|----------------------|----------------|
| Mounting instruction | DOC-0000871276 |
| Security instruction | DOC-0000278984 |
| Outline drawing      | DOU-00397695   |

### Additional Information

