

## Sencity Special Communication Antenna 91121514

### Description

2-Port Panel Antenna  
Frequency Range 380-470MHz  
Dual Polarization (X-Pol)  
Half-power Beam Width 65°  
Adjust. Electrical Downtilt 0°-14°T  
- set by hand or by optional RCU (Remote Control Unit)  
Gain 14dBi



### Product Configuration

### Technical Data

#### Electrical Data

|                              | Band 1    | Band 2    |
|------------------------------|-----------|-----------|
| Frequency (MHz)              | 380 - 430 | 430 - 470 |
| VSWR                         | 1.5       | 1.5       |
| Impedance (Ohm)              | 50        | 50        |
| Gain (dBi)                   | 13.5      | 14        |
| 3dB beamwidth (h) (°)        | 66        | 62        |
| 3dB beamwidth (v) (°)        | 22        | 19        |
| Composite power max (W)      | 400       | 400       |
| Ambient temperature (°C)     | 50        | 50        |
| Front to back ratio (dB)     | 25        | 25        |
| Co/Crosspolar ratio (dB)     | 25        | 25        |
| Vertical electrical tilt (°) | 14        | 14        |
| Port Isolation (dB)          | 30        | 30        |

#### 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) 1999 x 575 x 199 (Height x Width x Depth)  
Weight (kg) 22  
Windload frontal: 1160 N at 150 km/h, lateral: 480 N at 150 km/h, Wind speed survival: 200 km/h

Packing size (mm): 2250x640x225

Connector position: Bottom

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### 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                 |

### 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 material | Aluminium                      |

### Related Products

738546 Clamp 42-115mm

85010002 Clamp 110-220mm

85010003 Clamp 210-380mm

85010009 Downtilt Kit

86010148V01 Remote Control Unit (RCU)

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

### Related Documents

|                      |                |
|----------------------|----------------|
| Mounting instruction | DOC-0000871329 |
| Security instruction | DOC-0000278984 |
| Outline drawing      | DOU-00397955   |

### Additional Information

