

## SENCITY® Omni-SR MIMO Antenna 1399.17.0246

### Description

Compact omni-directional 4x4 MIMO cabinet/ceiling mount antenna.  
 Supports 4x4 WiFi MIMO in Wi-Fi 4 / Wi-Fi 6 bands.  
 Supports 4x4 Cellular MIMO in 2.3 / 2.6 / 3.5 GHz bands.  
 Rugged design, meets EN 50155 railway standard.  
 Fire retardant acc. to EN 45545-2 and NFPA130.  
 Single hole mounting.  
 Cable length 1.5m.



### Product Configuration

#### Technical Data

##### Electrical Data

|                          | Band 1      | Band 2      | Band 3      | Band 4      |
|--------------------------|-------------|-------------|-------------|-------------|
| Frequency (MHz)          | 2300 - 2500 | 2500 - 2690 | 3400 - 3800 | 4900 - 5975 |
| VSWR                     | 1.7         | 1.8         | 1.8         | 1.5         |
| Impedance (Ohm)          | 50          | 50          | 50          | 50          |
| Gain (dBi)               | 1           | 1.5         | 3           | 3.5         |
| Composite power max (W)  | 10          | 10          | 10          | 10          |
| Ambient temperature (°C) | 25          | 25          | 25          | 25          |
| Port Isolation (dB)      | 15          | 15          | 30          | 35          |

##### Ports

|                          | Port 1         | Port 2         | Port 3         | Port 4         |
|--------------------------|----------------|----------------|----------------|----------------|
| Port name                | WiFi           | WiFi           | WiFi           | WiFi           |
| Connector                | N, plug (male) | N, plug (male) | N, plug (male) | N, plug (male) |
| Cable Type               | RADOX_RF_316_D | RADOX_RF_316_D | RADOX_RF_316_D | RADOX_RF_316_D |
| Cable Length (m)         | 1.5            | 1.5            | 1.5            | 1.5            |
| Min. radius static (mm)  | 5              | 5              | 5              | 5              |
| Min. radius dynamic (mm) | 30             | 30             | 30             | 30             |
| Polarization             | vertical       | vertical       | vertical       | vertical       |
| DC grounded              | Yes            | Yes            | Yes            | Yes            |

##### Connections

|        | Band 1 | Band 2 | Band 3 | Band 4 |
|--------|--------|--------|--------|--------|
| Port 1 | X      | X      | X      | X      |
| Port 2 | X      | X      | X      | X      |
| Port 3 | X      | X      | X      | X      |
| Port 4 | X      | X      | X      | X      |

##### General Data

Ground plane: Antenna works on metallic as well as on non-metallic ground plane. Indicated gain values are valid for an antenna mounted on metallic ground plane of 0.5m diameter.

##### Mechanical Data

Dimensions (mm) 33.2 x 145 (Height x Diameter)  
 Weight (kg) 0.92

## SENCITY® Omni-SR MIMO Antenna 1399.17.0246

### Environmental Data

|  |                           |
|--|---------------------------|
| Environmental conditions                             | indoor/outdoor            |
| Operation temperature (°C)                           | -45 to 85                 |
| Storage temperature (°C)                             | -45 to 85                 |
| Transport temperature (°C)                           | -45 to 85                 |
| IP rating  | IP68, IP69                |
| Flammability rating                                  | EN 45545-2                |
| Solar radiation                                      | DIN 75220                 |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant                 |
| Lead-free soldered                                   | yes                       |
| WEEE 2012/19/EU                                      | no special marking needed |
| REACH 1907/2006/EC                                   | compliant                 |

Flamability: EN 45545-2 (2013) HL3, NFPA130 (2013)

Environment: EN 50155 (2016)

Cooling EN 60068-2-1 (2007), test Ad, -55°C, 8h

Dry heat EN-60068-2-2 (2007), test Bb, +85°C, 8h

Damp heat cyclic EN 60068-2-30, +25/55°C

Temperature change EN 60068-2-14 (2008), -40/+85°C

Salt mist EN 60068-2-11 (2008), 96h

Mechanical vibration/shock/simulated lifetime: IEC 61373 (2010), § 9 and § 10, category 1B

Hammer impact test: EN 60068-2-75 (1997), IEC 62262 (2002) IK10, test Ehc

Corrosion: MIL-F-14072 E type 1 "exposed"

### Material Data

|                 |                    |
|-----------------|--------------------|
| Radome colour   | RAL 7044 (grey)    |
| Radome material | PC (Polycarbonate) |

### Related Documents

|                      |                |
|----------------------|----------------|
| Mounting instruction | DOC-0000756790 |
| Painting instruction | DOC-0000256180 |
| Security instruction | DOC-0000278984 |
| Outline drawing      | DOU-00332762   |
| 3D-model             | DOC-0000778992 |

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