# **Data Sheet**



# SENCITY® Optima Antenna with pig-tail 1399.17.0144

# **Description**

Indoor DAS omni-directional antenna for In-Building Coverage

Ultra broad band, multi band

6 dBi gain

690 MHz up to 6400 MHz

AMPS, GSM, PCS, CDMA, UMTS, WiFi, WLAN 2.4 and 5.6 GHz, WiMAX, LTE

Fitted with 0.3 m plenum rated pigtail cable



# **Product Configuration**

# **Technical Data**

### **Electrical Data**

|                         | Band 1     | Band 2      | Band 3      | Band 4      |
|-------------------------|------------|-------------|-------------|-------------|
| Frequency (MHz)         | 690 - 1100 | 1100 - 1710 | 1710 - 2700 | 2700 - 3800 |
| VSWR                    | 2          | 1.5         | 1.7         | 1.6         |
| Impedance (Ohm)         | 50         | 50          | 50          | 50          |
| Gain (dBi)              | 2          | 6           | 6           | 6           |
| Composite power max (   | W) 50      |             |             |             |
| Ambient temperature (°C | C) 55      |             |             |             |

|                 | Band 5      | Band 6      |
|-----------------|-------------|-------------|
| Frequency (MHz) | 3800 - 5150 | 5150 - 6400 |
| VSWR            | 1.8         | 1.8         |
| Impedance (Ohm) | 50          | 50          |
| Gain (dBi)      | 7           | 8           |

### **Ports**

|                  | Port 1                  |
|------------------|-------------------------|
| Connector        | N, jack (female)        |
| Cable Type       | SUCOFORM_141_C<br>U_CMP |
| Cable Length (m) | 0.3                     |
| Polarization     | vertical                |
| DC grounded      | Yes                     |

## Connections

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

## **General Data**

IMD level -150 dBc at carrier power 2x 30dBm

Gain specification defined without use of ground plane.

Plenum rated cable

#### **Mechanical Data**

Dimensions (mm) 69 x 321 (Height x Diameter)

Weight (kg)

# **Data Sheet**



# SENCITY® Optima Antenna with pig-tail 1399.17.0144

#### **Environmental Data**

Environmental conditions indoor
Operation temperature (°C) 0 to 55
Storage temperature (°C) -40 to 80
Transport temperature (°C) -40 to 80
Flammability rating UL 94-V0
Solar radiation DIN 75220
2011/65/EU (RoHS - including compliant

2015/863 and 2017/2102)

WEEE 2012/19/EU special marking needed

REACH 1907/2006/EC compliant

**Material Data** 

Radome colour RAL 9010 (white)

Radome material ABS (Acrylonitrile butadiene styrene)

Back plate/base plate material Aluminium

#### **Related Products**

9091.99.0233 Ceiling Bracket\_SencityOptima Thickness of false ceiling to be < 30 mm.

#### **Related Documents**

Mounting instructionDOC-0000682958Painting instructionDOC-0000256180Security instructionDOC-0000278984

#### **Additional Information**

radiator grounded for remote connectivity surveillance

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 and IRIS

www.hubersuhner.com

Waiver: It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general information purposes only.