

## SENCITY Spot-M Yagi antenna 1324.17.0116

### Description

SENCITY® Spot-M linear polarised directional Yagi antenna  
Supports WLAN / WiFi acc. to IEEE 802.11 b/g  
14 dBi high gain version  
Railway approved acc. to EN50125-3 and EN 45545-2  
Wall and mast mounting bracket included

Pigtail connector style: straight N, plug (male)



### Product Configuration

### Technical Data

#### Electrical Data

|                          | Band 1      |
|--------------------------|-------------|
| Frequency (MHz)          | 2400 - 2484 |
| VSWR                     | 1.7         |
| Impedance (Ohm)          | 50          |
| Gain (dBi)               | 14          |
| 3dB beamwidth (h) (°)    | 30          |
| 3dB beamwidth (v) (°)    | 30          |
| Composite power max (W)  | 50          |
| Ambient temperature (°C) | 25          |

#### Ports

|                         | Port 1         |
|-------------------------|----------------|
| Connector               | N, plug (male) |
| Cable Type              | SX_04172_B-60  |
| Cable Length (m)        | 0.6            |
| Min. radius static (mm) | 25             |
| Polarization            | vertical       |
| DC grounded             | Yes            |

#### General Data

The antennas signal ground is electrically isolated from ground of the backplane/bracket.  
DC grounding of the antenna radiator is achieved by electrical connection to the outer conductor of the RF cable pigtail (signal ground).

#### Mechanical Data

|                            |                                        |
|----------------------------|----------------------------------------|
| Dimensions (mm)            | 80 x 420 x 80 (Height x Width x Depth) |
| Weight (kg)                | 0.85                                   |
| Mast diameter (mm)         | 25 - 80                                |
| Included mounting material | Wall and mast mounting bracket         |

Mounting holes: M6 (max. 7mm diameter)

Bracket: flexible in all 3 axes for tilting and rotation of antenna. Allows mast/roof/wall mounting.

Wind speed survival: 220 km/h

Windloads at 220 km/h: 16.5 N (frontal) / 162 N (lateral)

#### Environmental Data

|                          |                |
|--------------------------|----------------|
| Environmental conditions | indoor/outdoor |
|--------------------------|----------------|

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|                                                      |                        |
|------------------------------------------------------|------------------------|
| Operation temperature (°C)                           | -40 to 70              |
| Storage temperature (°C)                             | -40 to 70              |
| Transport temperature (°C)                           | -40 to 70              |
| IP rating                                            | IP65                   |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant              |
| WEEE 2012/19/EU                                      | special marking needed |
| REACH 1907/2006/EC                                   | compliant              |

Solar radiation: EN 50125-3:2004 §4.9, 1120 W/m<sup>2</sup> for 20h  
Air pressure: EN 50125-3:2004 §4.2, Altitude Class A1 (up to 1400m)  
Air pulse pressure: EN 50125-3:2004 §4.2, 1kPa/s  
Rain: EN 50125-3:2004 §4.6, delivery rate: 6mm/min  
Vibration/Shock: EN 50125-3:2004 §4.13, position profile: "outside the track"  
Pollution: EN 50125-3:2004 §4.11, pollution levels: 4B1, 4S1  
Corrosion: MIL-F-14072 E Type 1 "exposed"

### Material Data

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

### Related Documents

|                      |                |
|----------------------|----------------|
| Mounting instruction | DOC-0000402934 |
| Painting instruction | DOC-0000256180 |
| Security instruction | DOC-0000278984 |
| Outline drawing      | DOU-00304031   |
| 3D-model             | DOC-0000440134 |