

**SENCITY® SPOT-L Wi-Fi Antenna**

1324.17.0112

**Properties**

- Directional high gain antenna for Wi-Fi or Cellular bands between 2300 and 2700 MHz
- Gain of 15.5 to 18 dBi with Vertical polarisation
- Supports WLAN / Wi-Fi acc. to IEEE 802.11 b/g
- Half power beamwidth of 20° (vertical) and 20° (Horizontal)
- Integrated N female interface

**Electrical data**

|                     | Band 1                | Band 2                | Band 3                | Band 4                |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Frequency           | 2300 MHz ... 2400 MHz | 2400 MHz ... 2500 MHz | 2500 MHz ... 2600 MHz | 2600 MHz ... 2700 MHz |
| Impedance           | 50 Ω                  | 50 Ω                  | 50 Ω                  | 50 Ω                  |
| VSWR                | 1.7                   | 1.7                   | 1.7                   | 1.7                   |
| Gain                | 15.5 dBi              | 17 dBi                | 17.5 dBi              | 18 dBi                |
| HPBW vertical       | 20 °                  | 20 °                  | 20 °                  | 20 °                  |
| HPBW horizontal     | 20 °                  | 20 °                  | 20 °                  | 20 °                  |
| Front to back ratio | 28 dB                 | 28 dB                 | 28 dB                 | 28 dB                 |
| Co/Crosspolar Ratio | 20 dB                 | 20 dB                 | 20 dB                 | 20 dB                 |
| Ambient Temperature | 25 °C                 |                       |                       |                       |
| Composite Power max | 6 W                   |                       |                       |                       |

**Electrical remarks**

|         |                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks | Side lobes level ETSI EN 301 525 V1.1.1 (2000-06) TS2<br>Cross polarization ETSI EN 301 525 V1.1.1 (2000-06) TS2<br>F/B ratio ETSI EN 301 525 V1.1.1 (2000-06) TS2 |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Ports**

|              | Port 1           |
|--------------|------------------|
| Connector    | N, jack (female) |
| Polarization | vertical         |
| DC grounded  | Yes              |

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| Mechanical data |                                                                                    |
|-----------------|------------------------------------------------------------------------------------|
| Weight          | 1.2 kg                                                                             |
| Dimensions      | 305 mm x 305 mm x 25 mm (Height x Width x Depth)                                   |
| Windload        | front: 263 N at 160 km/h, lateral: 22 N at 160 km/h, Wind Speed survival: 220 km/h |

| Material data                  |                       |
|--------------------------------|-----------------------|
| Radome material                | Plastic               |
| Radome colour                  | RAL 9002 (grey-white) |
| Back plate/base plate material | Aluminum              |

| Environmental data             |                  |
|--------------------------------|------------------|
| Operation temperature          | -45 °C ... 70 °C |
| Storage temperature            | -45 °C ... 70 °C |
| Transport temperature          | -45 °C ... 70 °C |
| Environment (application)      | Indoor/Outdoor   |
| Ingress protection (IP Rating) | IP67             |
| Flammability rating            | UL 94-HB         |

| Environmental remarks                                       |  |
|-------------------------------------------------------------|--|
| Humidity ETSI EN300-2-4 T4.1E 144h 95%                      |  |
| Solar radiation ASTM G53 1000 h                             |  |
| Salt spray IEC 60068-2-11 Ka 500 h                          |  |
| Mechanical shock IEC 60721-3-4 4M5                          |  |
| Vibration IEC 60721-3-4 30 min/axis random 4M5              |  |
| Low temperature IEC 60068-2-1 72h -55°C                     |  |
| High temperature IEC 60068-2-2 72h +71°C                    |  |
| Temperature cycling IEC 60068-2-14 1h -45 to +70°C 3 cycles |  |

| Antenna accessories |             |                                 |
|---------------------|-------------|---------------------------------|
| Item description    | Item number | Product name                    |
| 9091.99.0183        | 84007205    | Planar Antenna Downtilt Bracket |

| Ordering information |             |                               |
|----------------------|-------------|-------------------------------|
| Item description     | Item number | Product name                  |
| 1324.17.0112         | 85017308    | SENCITY® SPOT-L Wi-Fi Antenna |

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DOCUMENT PIM-P3306 / Date of publication: 12.08.2025 / uncontrolled copy