

SENCITY® Spot-M 2x2 WiFi MIMO Antenna

1356.17.0093

Properties

- Directional high gain antenna for Wi-Fi or Cellular bands between 5150 and 5875 MHz
- Gain of 19 dBi with Vertical and Horizontal Polarisation (or Dual Slant depending on mounting orientation)
- Half power beamwidth of 17° (vertical) and 17° (Horizontal)
- For both indoor and outdoor mounting with IP rating IP67



| Electrical data          |                       |                       |
|--------------------------|-----------------------|-----------------------|
|                          | Band 1                | Band 2                |
| Frequency                | 5150 MHz ... 5725 MHz | 5725 MHz ... 5875 MHz |
| Impedance                | 50 Ω                  | 50 Ω                  |
| VSWR                     | 1.7                   | 1.7                   |
| Gain                     | 19 dBi                | 19.5 dBi              |
| HPBW vertical            | 17 °                  | 17 °                  |
| HPBW horizontal          | 17 °                  | 17 °                  |
| Isolation between Ports  | 30 dB                 | 30 dB                 |
| Front to back ratio      | 30 dB                 | 30 dB                 |
| Co/Crosspolar Ratio      | 20 dB                 | 20 dB                 |
| Vertical Electrical Tilt | 0 °                   | 0 °                   |
| Ambient Temperature      | 25 °C                 | 25 °C                 |
| Composite Power max      | 6 W                   | 6 W                   |

| Ports        |                  |                  |
|--------------|------------------|------------------|
|              | Port 1           | Port 2           |
| Port name    | HOR              | VER              |
| Connector    | N, jack (female) | N, jack (female) |
| Polarization | linear           | linear           |

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| Connections |        |        |
|-------------|--------|--------|
|             | Port 1 | Port 2 |
| Port name   | HOR    | VER    |
| Band 1      | ✓      | ✓      |
| Band 2      | ✓      | ✓      |

| Mechanical data |                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight          | 0.7 kg                                                                                                                                                                                                                                                                                                                          |
| Dimensions      | 190 mm x 190 mm x 30 mm (Height x Width x Depth)                                                                                                                                                                                                                                                                                |
| Windload        | front: 105 N at 160 km/h, lateral: 16 N at 160 km/h, Wind Speed survival: 220 km/h                                                                                                                                                                                                                                              |
| Remarks         | Antenna can be mounted and operated in two different polarization options: Dual-slant +/-45° when mounted at diamond shape orientation, or dual polarization vertical and horizontal when mounted up-right 0°/90° orientation. Both antenna orientations fit to the standard mounting bracket accessory, type No. 9091.99.0201. |

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

| Environmental data             |                  |
|--------------------------------|------------------|
| Operation temperature          | -55 °C ... 70 °C |
| Storage temperature            | -55 °C ... 70 °C |
| Transport temperature          | -55 °C ... 70 °C |
| Environment (application)      | Indoor/Outdoor   |
| Ingress protection (IP Rating) | IP67             |

| Environmental remarks                                                                                                                                                                                                                                                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Low temperature IEC 60068-2-1 72h -55°C<br>High temperature IEC 60068-2-2 72h +71°C<br>Temperature cycling IEC 60068-2-14 1h -45 to +70°C 3 cycles<br>Humidity ETSI EN300-2-4 T4.1E 144h 95%<br>Solar radiation ASTM G53 1000 h<br>Salt spray IEC 60068-2-11 Ka 500 h<br>Mechanical shock IEC 60721-3-4 4M3<br>Vibration IEC 60721-3-4 30 min/axis random 4M3 |  |

| Additional Information                                                                                                                                                                                                                                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Antenna dimensions, ports and functions are identical to the SENCITY Spot-M antenna item 1356.17.0023 ( <a href="http://www.hubersuhner.com/ProdDat/84018715">www.hubersuhner.com/ProdDat/84018715</a> ) and therefore can meet identical standards and norms. |  |

| Antenna accessories |             |                                         |
|---------------------|-------------|-----------------------------------------|
| Item description    | Item number | Product name                            |
| 9091.99.0201        | 84018626    | SENCITY Planar Antenna Downtilt Bracket |

| Ordering information |             |                                       |
|----------------------|-------------|---------------------------------------|
| Item description     | Item number | Product name                          |
| 1356.17.0093         | 85094773    | SENCITY® Spot-M 2x2 WiFi MIMO Antenna |

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