

SENCITY® Spot-L 2x2 WiFi MIMO Antenna

1355.17.0001

Properties

- Directional high gain antenna for Wi-Fi or Cellular bands between 4900 MHz and 6100 MHz
- Gain of 23 dBi with Vertical/Horizontal polarization
- Including wireless access in vehicular environments IEEE 802.11p (5.85-5.925 GHz)
- Also, for public safety wireless networks and Wi-Fi band IEEE 802.11 a/h/n for Japan (4.9 GHz band)
- Half power beamwidth of 10° (vertical) and 10° (Horizontal)

**Electrical data**

	Band 1	Band 2
Frequency	4900 MHz ... 5150 MHz	5150 MHz ... 6100 MHz
Impedance	50 Ω	50 Ω
VSWR	2	2
Gain	22 dBi	23 dBi
HPBW vertical	10 °	10 °
HPBW horizontal	10 °	10 °
Isolation between Ports	35 dB	35 dB
Front to back ratio	30 dB	30 dB
Ambient Temperature	25 °C	
Composite Power max	6 W	

Electrical remarks

Remarks	Side lobes level ETSI EN 302 326-3 V1.1.2 DN3 Cross polarization ETSI EN 302 326-3 V1.1.2 DN3
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Ports

	Port 1	Port 2
Port name	HOR	VER
Connector	N, jack (female)	N, jack (female)
Polarization	horizontal	vertical

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Ports		
	Port 1	Port 2
DC grounded	Yes	Yes

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

Mechanical data	
Weight	1.2 kg
Dimensions	305 mm x 305 mm x 15 mm (Height x Width x Depth)
Windload	front: 263 N at 160 km/h, lateral: 13 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 2000 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
1355.17.0001	85017310	SENCITY® Spot-L 2x2 WiFi MIMO Antenna

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DOCUMENT PIM-P3296 / Date of publication: 12.08.2025 / uncontrolled copy