

SENCITY® Spot-SR 2x2 WiFi MIMO Antenna

1356.35.0089

Properties

- Directional high gain antennas for 2x2 MIMO Wi-Fi bands between 4900 and 5935 MHz
- Gain of 14 dBi with dual slant $\pm 45^\circ$ polarisation
- Half power beamwidth of 30° (vertical) and 40° (Horizontal)
- Wall and Mast mounting brackets included
- Integrated QMA female interface



Electrical bands			
	Band 1	Band 2	Band 3
Name	Wi-Fi	Wi-Fi	Wi-Fi
Frequency	4900 MHz ... 5150 MHz	5150 MHz ... 5470 MHz	5470 MHz ... 5935 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	2	1.6	1.6
Gain	11.5 dBi	12.5 dBi	13 dBi
HPBW vertical	40°	35°	33°
HPBW horizontal	42°	38°	36°
Isolation between Ports	19 dB		21 dB
Front to back ratio	20 dB	20 dB	20 dB
Ambient Temperature	25 $^\circ\text{C}$	25 $^\circ\text{C}$	25 $^\circ\text{C}$
Composite Power max	30 W	30 W	30 W

Electrical remarks

Remarks	Peak Gain 14 dBi @ 5790 MHz
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Ports

	Port 1	Port 2
Port name	Wi-Fi	Wi-Fi
Connector	QMA, jack (female)	QMA, jack (female)
Polarization	-45° slant	$+45^\circ$ slant
DC grounded	Yes	Yes

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Connections		
Port number	Port 1	Port 2
Band 1	✓	✓
Band 2	✓	✓
Band 3	✓	✓

Mechanical data	
Weight	0.11 kg
Dimensions	101 mm x 81 mm x 38 mm (Height x Width x Depth)
Remarks	Wall mounting material included.

Interface and material data	
Radome material	PC (Polycarbonate)
Radome colour	RAL 7044 (grey)

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Indoor/Outdoor
Ingress protection (IP Rating)	IP 66 / IP 67
Flammability rating	EN 45545-2

Environmental remarks

FLAMMABILITY: EN 45545-2 (2013) HL3 and NFPA130 (2013), also BS 6853 and DIN 5510-2

ENVIRONMENT: EN 50155 (2016) and EN 50125-3 (2003), also EN 60068 related

IP RATING: IP 66 / IP 67 (IEC 60529)

SOLAR RADIATION: EN 50125-3:2004 §4.9, 1120 W/m² 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, 1 kPa/s

RAIN: EN 50125-3:2004 §4.6, delivery rate: 6 mm/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"

MECHANICAL IMPACT (HAMMER IMPACT): EN 60068-2-75 (IEC 62262/2002-02 IK06)

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DOCUMENT PIM-P35352 / Date of publication: 07.03.2024 / uncontrolled copy