

SENCITY® Spot-L MIMO 3x3 WiFi MIMO Antenna

1356.17.0090

Properties

- Directional high gain antenna for Wi-Fi or Cellular bands between 4900 MHz and 6100 MHz
- Gain of 16-18 dBi with triple slant vertical and +/-45° polarization
- Wi-Fi IEEE 802.11a/h/n/p/ac standard
- For both indoor and outdoor mounting with IP rating IP67



Electrical data			
	Band 1	Band 2	Band 3
Frequency	4900 MHz ... 5150 MHz	5150 MHz ... 6000 MHz	6000 MHz ... 6100 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	1.8	1.8	1.8
Gain	17 dBi	18 dBi	16 dBi
HPBW vertical	20 °	20 °	12 °
HPBW horizontal	20 °	20 °	15 °
Isolation between Ports	35 dB	35 dB	30 dB
Front to back ratio	30 dB	30 dB	30 dB
Ambient Temperature	25 °C		
Composite Power max	6 W		

Electrical remarks	
Remarks	Polarisation - 45° slant, vertical slant and +45° slant (port 1 to 3) List of halfpower beamwidth horizontal plane: Vertical slant port: 20° (typ) @ 4.9 - 5.875 GHz 15° (typ) @ 5.875 - 6.1 GHz Dual slant +/- 45° ports: 20° (typ) @ 4.9-6.1 GHz List of half power beamwidth vertical plane: Vertical slant port: 12° (typ) @ 4.9 - 6.1 GHz Dual slant +/- 45° ports: 20° (typ) @ 4.9-6.1 GHz

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Electrical remarks	
	Side lobes level azimuth: Vertical slant port: -15 dB(typ) @ 4.9-5.875 GHz - 9 dB(typ) @ 5.875-6.1 GHz Dual slant +/- 45° ports: -15 dB(typ) @ 4.9-6.0 GHz -13 dB(typ) @ 6.0-6.1 GHz
	Side lobes level elevation: Vertical slant port: -15 dB(typ) @ 4.9-5.875 GHz -10 dB(typ) @ 5.875-6.1 GHz Dual slant +/- 45° ports: -15 dB(typ) @ 4.9-5.875 GHz -11 dB(typ) @ 5.875-6.1 GHz

Ports			
	Port 1	Port 2	Port 3
Port name	-45	VER	45
Connector	N, jack (female)	N, jack (female)	N, jack (female)
Polarization	-45° slant	vertical	+45° slant
DC grounded	Yes	Yes	Yes

Connections			
	Port 1	Port 2	Port 3
Port name	-45	VER	45
Band 1	✓	✓	✓
Band 2	✓	✓	✓
Band 3	✓	✓	✓

Mechanical data	
Weight	1.5 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
Environment (application)	Outdoor
Ingress protection (IP Rating)	IP67
Flammability rating	UL 94-HB

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Environmental remarks
Temperature condition low -55°, IEC 60068-2-1
Temperature condition hig +71°, IEC 60068-2-2
Temperature cycling IEC 60068-2-14 1h -45°C to +70°C 3 cycles
Salt spray IEC 60068-2-11 Ka / 500 h
Humidity ETSI EN300-2-4 T4.1E / 144h / 95%
Solar radiation ASTM G53 / 2000 h
Mechanical shock EC 60721-3-4, 4M3
Vibration IEC 60721-3-4 30 min/axis random 4M3

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
1356.17.0090	85004909	SENCITY® Spot-L MIMO 3x3 WiFi MIMO Antenna

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