

## SENCITY® Spot-M 19 dBi 2x2 WiFi MIMO Antenna 1356.17.0093

### Description

Directional high gain antenna for Wi-Fi 5 bands.  
Supports 2X2 WiFi MIMO.  
Supports from 5.15 GHz to 5.875 GHz frequency bands per each port.  
For outdoor or indoor applications

Mounting options for polarization vertical/horizontal OR dual-slant +/- 45°



### Product Configuration

#### Technical Data

##### Electrical Data

	Band 1	Band 2
Frequency (MHz)	5150 - 5725	5725 - 5875
VSWR	1.7	1.7
Impedance (Ohm)	50	50
Gain (dBi)	19	19.5
3dB beamwidth (h) (°)	17	17
3dB beamwidth (v) (°)	17	17
Composite power max (W)	6	6
Ambient temperature (°C)	25	25
Front to back ratio (dB)	30	30
Co/Crosspolar ratio (dB)	20	20
Vertical electrical tilt (°)	0	0
Port Isolation (dB)	30	30

##### Ports

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

##### Connections

	Band 1	Band 2
Port 1	X	X
Port 2	X	X

##### General Data

##### Mechanical Data

Dimensions (mm)	190 x 190 x 30 (Height x Width x Depth)
Weight (kg)	0.7
Windload	frontal: 105 N at 160 km/h, lateral: 16 N at 160 km/h, Wind speed survival: 220 km/h

Antenna can be mounted and operated in two different polarization options:

Dual-slant +/-45° when mounted at diamond shape orientation, or dual polarisation 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.

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### Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-55 to 70
Storage temperature (°C)	-55 to 70
Transport temperature (°C)	-55 to 70
IP rating	IP67
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
Lead-free soldered	yes
WEEE 2012/19/EU	special marking needed
REACH 1907/2006/EC	compliant

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

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 4M3

Vibration IEC 60721-3-4 30 min/axis random 4M3

### Material Data

Radome colour	RAL 9002 (grey-white)
Radome material	Plastic
Back plate/base plate material	Aluminium

### Related Products

9091.99.0201 Planar Antenna Downtilt Bracket

### Related Documents

Mounting instruction	DOC-0000798673
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DPR-00347454
3D-model	DOC-0000797867

### Additional Information

Antenna dimensions, ports and functions are identical to the SENCITY Spot-M antenna item 1356.17.0023 ([www.hubersuhner.com/ProdDat/84018715](http://www.hubersuhner.com/ProdDat/84018715)) and therefore can meet identical standards and norms.