

## SENCITY® SPOT-L WiFi Antenna 1355.17.0001

### Description

Directional, planar, dual linear vertical + horizontal polarized WiFi antenna  
 WLAN IEEE 802.11 a/h/n/p  
 Frequency band 4.9 - 6.1 GHz, 23 dBi high gain  
 Including wireless access in vehicular environments IEEE 802.11p (5.85-5.925 GHz)  
 Also for public safety wireless networks and WiFi band IEEE 802.11 a/h/n for Japan (4.9 GHz band)  
 For outdoor applications  
 Ingress protection IP67



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1	Band 2
Frequency (MHz)	4900 - 5150	5150 - 6100
VSWR	2	2
Impedance (Ohm)	50	50
Gain (dBi)	22	23
3dB beamwidth (h) (°)	10	10
3dB beamwidth (v) (°)	10	10
Composite power max (W)	6	
Ambient temperature (°C)	25	
Front to back ratio (dB)	30	30
Port Isolation (dB)	35	35

#### Ports

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

#### Connections

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

#### General Data

Side lobes level ETSI EN 302 326-3 V1.1.2 DN3  
 Cross polarisation ETSI EN 302 326-3 V1.1.2 DN3

#### Mechanical Data

Dimensions (mm) 305 x 305 x 15 (Height x Width x Depth)  
 Weight (kg) 1.2  
 Windload frontal: 263 N at 160 km/h, lateral: 13 N at 160 km/h, Wind speed survival: 220 km/h

#### Environmental Data

Environmental conditions indoor/outdoor  
 Operation temperature (°C) -45 to 70  
 Storage temperature (°C) -45 to 70

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Transport temperature (°C)	-45 to 70
IP rating	IP67
Flammability rating 2011/65/EU (RoHS - including 2015/863 and 2017/2102)	UL 94-HB compliant
Lead-free soldered	yes
WEEE 2012/19/EU REACH 1907/2006/EC	special marking needed compliant

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

### Material Data

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

### Related Products

9091.99.0183 Planar Antenna Downtilt Bracket

### Related Documents

Mounting instruction	DOC-0000225623
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DPR-00265435
3D-model	DOC-0000458307