

## SENCITY® Spot-S WiFi Dual-Band Antenna 1399.19.0221

### Description

Small directional, planar, linear polarized dual-band WiFi antenna with 9 dBi gain  
 WLAN bands 2.4 to 2.5 GHz (Port 1) and 5.150 to 5.975 GHz (Port 2)  
 WLAN IEEE 802.11 a/b/g/h/p, LTE 2600 band included at port 1  
 Rugged design, meets EN 50155 and EN 50125-3 railway standards  
 Fire retardant acc. to EN 45545-2 and NFPA130  
 For outdoor and indoor applications  
 Ingress protection IP 66 and IP 67

Wall mounting material included



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1	Band 2
Frequency (MHz)	2400 - 2700	5150 - 5975
VSWR	2	2
Impedance (Ohm)	50	50
Gain (dBi)	9	9
3dB beamwidth (h) (°)	80	47
3dB beamwidth (v) (°)	55	30
Composite power max (W)	30	30
Ambient temperature (°C)	25	25
Front to back ratio (dB)	18	18
Port Isolation (dB)	25	35

#### Ports

	Port 1	Port 2
Port name	2.4 GHz Band	5 GHz Band
Connector	SMA, jack (female)	SMA, jack (female)
Polarization	vertical	vertical

#### Connections

	Band 1	Band 2
Port 1	X	
Port 2		X

#### General Data

#### Mechanical Data

Dimensions (mm) 101 x 81 x 36 (Height x Width x Depth)  
 Weight (kg) 0.13  
 Windload frontal: 15 N at 160 km/h , Wind speed survival: 220 km/h  
 Included mounting material Wall mounting material

#### Environmental Data

Environmental conditions outdoor  
 Operation temperature (°C) -40 to 85  
 Storage temperature (°C) -40 to 85  
 Transport temperature (°C) -40 to 85  
 Flammability rating EN 45545-2  
 2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant

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Lead-free soldered	yes
WEEE 2012/19/EU	special marking needed
REACH 1907/2006/EC	compliant

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/m<sup>2</sup> for 20h

AIR PRESSURE: EN 50125-3:2004 §4.2, Altitude Class A1 (up to 1400m)

AIR PULE 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)

### Material Data

Radome colour	RAL 7044 (grey)
Radome material	PC (Polycarbonate)

### Related Products

9091.99.0238 Outdoor Spot-S Antenna Down-Sidetilt Bracket

9091.99.0237 L-Bracket for SPOT-S antennas

### Related Documents

Mounting instruction	DOC-0000287053
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00249255
3D-model	DOC-0000386435

### Additional Information

Following Declaration of Conformity for SENCITY Spot-S antennas are available on request: \* Industrial standards EN 60068 / EN 60529 / IEC 61373: Ref. DOC-0000318049 \* Railway rolling stock, environmental standards EN 50155 and fire behaviour EN 45545-2k, NFPA130: Ref. DOC-0000380375 \* Railway trackside, environmental standards EN 50125-3 and fire behaviour EN 45545-2: Ref. DOC-0000411396