

SENCITY® Spot-S Wi-Fi Dual-Band Antenna

1399.19.0221

Properties

- 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
- Ingress protection IP 66 and IP 67
- Wall mounting material included
- For outdoor and indoor applications



Electrical bands

	Band 1	Band 2
Frequency	2400 MHz ... 2700 MHz	5150 MHz ... 5975 MHz
VSWR	2	2
Impedance	50 Ω	50 Ω
Gain	9 dBi	9 dBi
HPBW vertical	55 °	30 °
HPBW horizontal	80 °	47 °
Isolation between Ports	25 dB	35 dB
Front to back ratio	18 dB	18 dB
Ambient Temperature	25 °C	25 °C
Composite Power max	30 W	30 W

Ports

	Port 1	Port 2
Port name	2.4 GHz Band	5 GHz Band

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Ports		
	Port 1	Port 2
Connector	SMA, jack (female)	SMA, jack (female)
Polarization	vertical	vertical

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

Mechanical data	
Weight	0.13 kg
Dimensions	101 mm x 81 mm x 36 mm (Height x Width x Depth)
Windload	front: 15 N at 160km/h, Wind Speed survival: 220 km/h

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

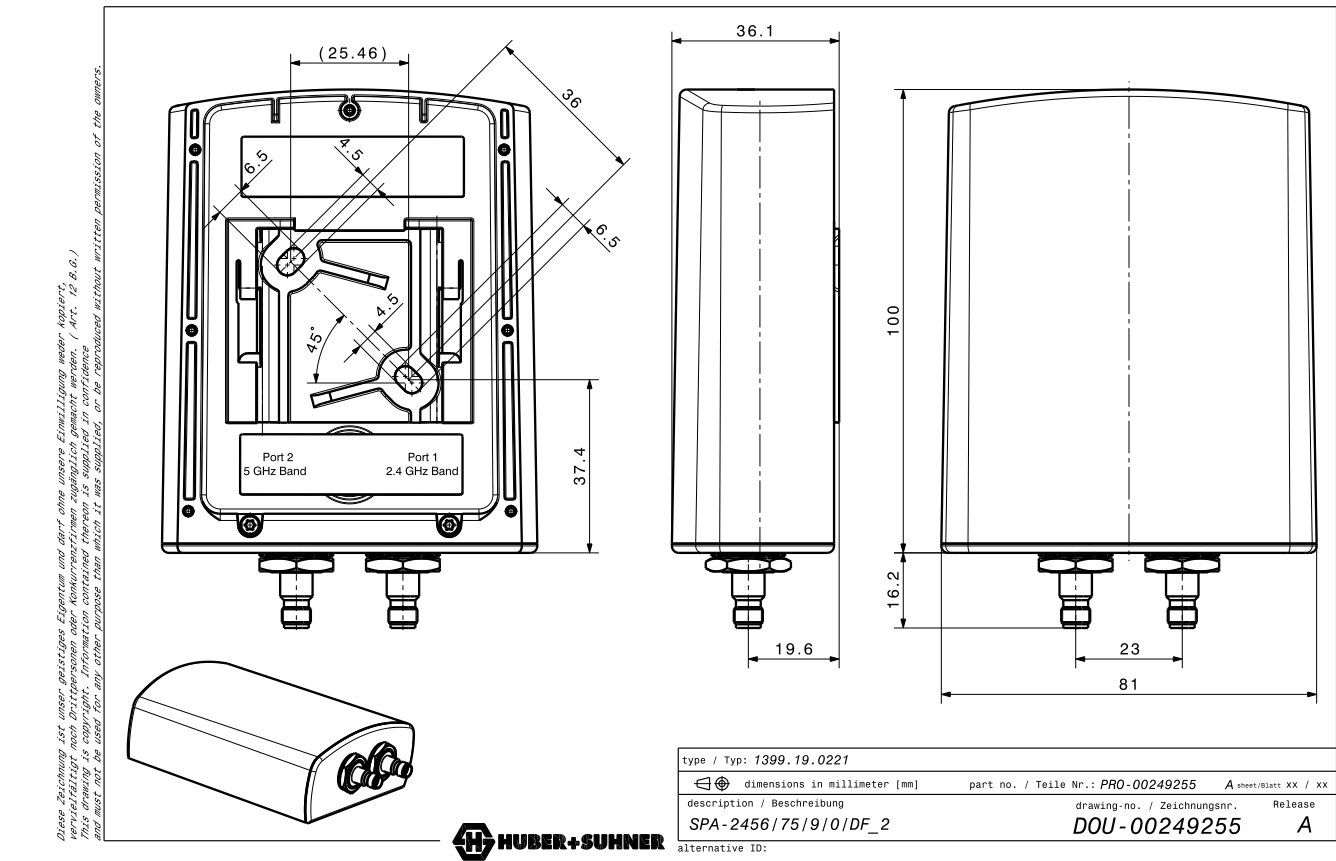
Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	IP67
Flammability rating	EN 45545-2

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)

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

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Outline drawing



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DOCUMENT PIM-P3242 / Date of publication: 12.06.2024 / uncontrolled copy