

SENCITY® Spot-S 3 x 3 WiFi MIMO Antenna 1356.35.0003

SPA-5600/65/9/0/MIMO_1

Description

Directional, planar, linear polarized WiFi MIMO antenna with 8 dBi gain
 WLAN IEEE 802.11 a/h/n/p/ac, 3 x 3 MIMO with three QMA (jack) antenna ports
 WiFi 5 GHz bands 5.15 up to 5.935 GHz
 Approved acc. to EN 50155 (2007) and EN 45545-2 (2012) for railway rolling stock and EN 50125-3 (2003) for railway signalling and telecommunications on track-side
 For outdoor and indoor applications
 Ingress protection IP 66 and IP 67

Wall mounting material included



Product Configuration

Technical Data

Electrical Data

	Band 1
Frequency (MHz)	5150 - 5935
VSWR	1.7
Impedance (Ohm)	50
Gain (dBi)	8
3dB beamwidth (h) (°)	65
3dB beamwidth (v) (°)	65
Vertical electrical tilt (°)	0
Port Isolation (dB)	17

Ports

	Port 1	Port 2	Port 3
Connector	QMA, jack (female)	QMA, jack (female)	QMA, jack (female)
Polarization	-45° slant	vertical	+45° slant

Connections

	Band 1
Port 1	X
Port 2	X
Port 3	X

General Data

Composite Power max (W) 2

Electrical data (VSWR, Gain and beam width) is derived from the vertical polarized radiator of this MIMO antenna

- Meets EN 50155 railway standard fire retardant acc. to DIN 5510-2, EN 45545-2, BS 6853, and outdoor use acc. to NF F16-101/102
- Meets environmental standards according to EN 60068

Mechanical Data

Dimensions (mm) 101 x 81 x 36 (Height x Width x Depth)
 Weight (kg) 0.27
 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

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Operation temperature (°C)	-40 to 85
Operating conditions	ETSI EN 300 019-2-4 V2.2.2 (2003-04) T4.1E
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
Flammability rating	UL 94-V0
Solar radiation	UL 746C, F1
RoHS 2011/65/EU	compliant
Lead-free soldered	yes
REACH 2006/1907/EC	compliant

NOTE: IP rating can be achieved with the use of waterproof QMA-m cable connectors for the jumper cables.
For more information please consult <http://www.hubersuhner.com/hs-p-rf-con-gr-series-ipqma.htm>

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 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 Down_Sidetilt Bracket_SencitySpot-S outdoor

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-00182690
3D-model	DOC-0000393287

Additional Information

Following Declaration of Conformity for SENCITY® Spot-S antennas are available on request:

* Industrial standards EN 60068 / EN 60529 / IEC 61373 s ref. DOC-0000318049

* Railway rolling stock, environmental standards EN 50155 and fire behaviour EN 45545-2 ref. DOC-0000380375

* Railway trackside, environmental standards EN 50125-3 and fire behaviour EN 45545-2 ref. DOC-0000411396