

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

Description

Small directional, planar, linear polarized WiFi MIMO antenna with 8 dBi gain
 WLAN IEEE 802.11 a/h/n/p/ac, 3x3 MIMO with three QMA (jack) antenna ports
 WiFi 5 GHz bands 5.15 up to 5.935 GHz
 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
Frequency (MHz)	5150 - 5935
VSWR	1.7
Impedance (Ohm)	50
Gain (dBi)	8
3dB beamwidth (h) (°)	65
3dB beamwidth (v) (°)	65
Composite power max (W)	30
Ambient temperature (°C)	25
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

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

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	indoor/outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
Flammability rating	EN 45545-2

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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

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>

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 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: 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