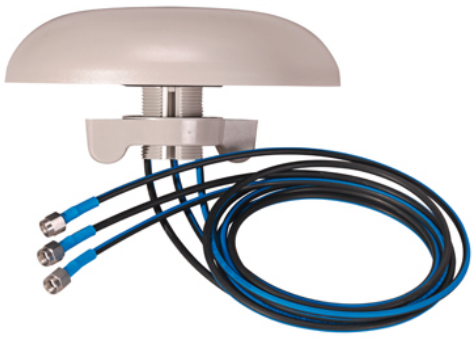
Data Sheet

HUBER+SUHNER

SENCITY® Omni-S 3x3 WiFi MIMO Antenna
1399.59.0003

Description

Omni-directional 3x3 WiFi MIMO and LTE 2300, 2600 and 3500 MHz antenna
Rugged and low profile cabinet and pole/wall mount antenna
Supports WiFi dual-band 2.4 - 2.5 / 4.9 - 6 GHz, IEEE 802.11 b/g/a/h/p/n/ac
And cellular LTE 2300, 2500, 2600 and 3500 MHz band configurations
Single hole cabinet mounting, for outdoor & indoor applications
Vandalism proof "IK10" acc. to IEC 62262/2002-02



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	2300 - 2500	2500 - 2690	3400 - 3800	4900 - 5975
VSWR	1.7	1.8	2	1.5
Impedance (Ohm)	50	50	50	50
Gain (dBi)	1.5	1.5	2	4
Composite power max (W)	40	40	30	30
Ambient temperature (°C)	25	25	25	25
Port Isolation (dB)	16	17	25	30

Ports

	Port 1	Port 2	Port 3
Port name	WiFi 1	WiFi 2	WiFi 3
Connector	SMA-reverse, plug (male)	SMA-reverse, plug (male)	SMA-reverse, plug (male)
Cable Type	ENVIROFLEX_316_D	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Cable Length (m)	1	1	1
Min. radius static (mm)	5	5	5
Min. radius dynamic (mm)	30	30	30
Polarization	vertical	vertical	vertical
DC grounded	Yes	Yes	Yes

Connections

	Band 1	Band 2	Band 3	Band 4
Port 1	X	X	X	X
Port 2	X	X	X	X
Port 3	X	X	X	X

General Data

GROUND PLANE: Antenna works on metallic as well as on non-metallic ground plane. VSWR is valid for both mounting options
GAIN VALUES: Indicated gain values are valid for non-metallic ground plane. Gain of this antenna on metallic surface (measured on 500 x 500 mm plane) is higher: 5 dBi for 2.3 to 2.7 GHz and 6 dBi for 3.4 to 3.8 GHz and also for 4.9 to 5.975 GHz

INGRESS PROTECTION:
- IP 69K when mounted on cabinet's flat surface or roof

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- IP 66 and IP67 when mounted on bracket with sealed cable conduit

Mechanical Data

Dimensions (mm)	33.2 x 145 (Height x Diameter)
Weight (kg)	0.29

Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-55 to 85
Storage temperature (°C)	-55 to 85
Transport temperature (°C)	-55 to 85
Flammability rating	UL 94-V0
Solar radiation	EN 60068-2-5 Method B, 40 °C, 1150h
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

TEMPERATURE RANGE: EN 60068-2-1 (2007), test Ab, -55°C, 16h and EN-60068-2-2 (2007), test Bb, +85°C, 16h
THERMAL SHOCK: IEC 60068-2-14 (2009), test Na, -55°C to +85°C, 3h, 5 cycles
SOLAR RADIATION: EN 60068-2-5, test Sa, procedure B, 1200 W/m2, 3 x 24h
RELATIVE HUMIDITY: EN 60068-2-78 (2012), test Cb, RH 95%, 21d (damp heat, steady state)
RELATIVE HUMIDITY: EN 60068-2-30 (2005), RH 97%, 6 cycles (damp heat, cyclic)
SALT SPRAY: EN 60068-2-11 (2002), test Ka, 96h
MECHANICAL VIBRATIONI / SHOCK: IEC 61373 (1999), § 9 and § 10, category 2
VANDALISM: EN 60068-2-75 (1997), IEC 62262 (2002) IK10, test Ehc
CORROSION: MIL-F-14072 E type 1 "exposed"

Material Data

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

Related Products

9091.99.0259 Bracket kit for SENCITY® Omni-S MIMO antenna
Accessory kit 9091.99.0259 is available via H+S customizing process, no item number as extra deliverable assigned yet.

Related Documents

Mounting instruction	DOC-0000711826
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00281914
3D-model	DOC-0000690740

Additional Information

This product can be customized alternatively in the following way: - 1 to 4 radiation elements, as described above - Cable length from 300 to 5000 mm - Choice of RF connector (SMA, R-SMA, QMA, TNC, R-TNC, N) - Customer specific port labeling on pigtails - Further wireless band options available: Cellular LTE 800 up to LTE 2600 (EUR bands) or Cellular LTE 700 up to LTE 2600 (US bands), Cellular LTE with GPS/Glonass incl. LNA

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.