

SENCITY® Omni-S 4x4 Wi-Fi MIMO Antenna

1399.59.0005

Properties

- Omni-directional 4x4 Wi-Fi MIMO and LTE 2300, 2600 and 3500 MHz antenna
- Rugged and low profile cabinet and pole/wall mount antenna
- Supports Wi-Fi 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



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Frequency	2300 MHz ... 2500 MHz	2500 MHz ... 2690 MHz	3400 MHz ... 3800 MHz	4900 MHz ... 5975 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.7	1.8	2	1.5
Gain	1.5 dBi	1.5 dBi	2 dBi	3.5 dBi
Isolation between Ports	15 dB	16 dB	25 dB	27 dB
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	40 W	40 W	30 W	30 W

Electrical remarks	
Remarks	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: 4.5 dBi for 2.3 to 2.7 GHz and 5.5 dBi for 3.4 to 3.8 GHz and 6.5 dBi for 4.9 to 5.975 GHz

Ports				
	Port 1	Port 2	Port 3	Port 4
Port name	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 4
Connector	SMA-reverse, plug (male)	SMA-reverse, plug (male)	SMA-reverse, plug (male)	SMA-reverse, plug (male)

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Ports				
	Port 1	Port 2	Port 3	Port 4
Cable type	ENVIROFLEX_316_D	ENVIROFLEX_316_D	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Cable length	1 m	1 m	1 m	1 m
Polarization	vertical	vertical	vertical	vertical
DC grounded	Yes	Yes	Yes	Yes

Connections				
	Port 1	Port 2	Port 3	Port 4
Port name	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 4
Band 1	✓	✓	✓	✓
Band 2	✓	✓	✓	✓
Band 3	✓	✓	✓	✓
Band 4	✓	✓	✓	✓

Mechanical data	
Weight	0.32 kg
Dimensions	33.2 mm x 145 mm (Height x Diameter)

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

Environmental data	
Operation temperature	-55 °C ... 85 °C
Storage temperature	-55 °C ... 85 °C
Transport temperature	-55 °C ... 85 °C
Environment (application)	Indoor/Outdoor
Flammability rating	UL 94-V0
Standards	Vandalism Proof IEC 62262

Environmental remarks	
INGRESS PROTECTION: - IP 69K when mounted on cabinet's flat surface or roof - IP 66 and IP67 when mounted on bracket with sealed cable conduit 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 VIBRATION / 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"	

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	

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Antenna accessories remarks
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.

Ordering information		
Item description	Item number	Product name
1399.59.0005	85031687	SENCITY® Omni-S 4x4 Wi-Fi MIMO Antenna

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DOCUMENT PIM-P3219 / Date of publication: 20.08.2025 / uncontrolled copy