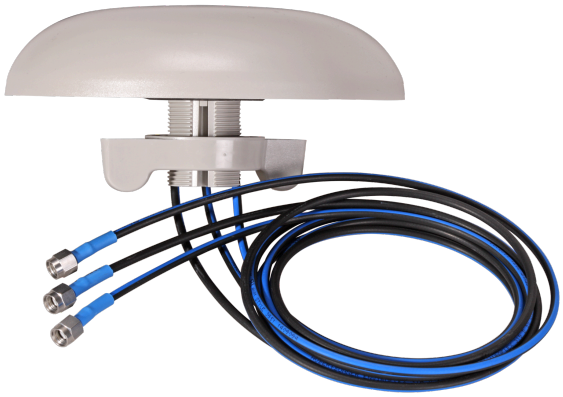
DATA SHEET

SENCITY® Omni-S Cellular SISO and 2x2 Wi-fI MIMO Antenna

1399.19.0227

Properties

- Omni-directional Cellular/4G LTE800 SISO and WiFi 2x2 MIMO antenna
- Cellular/LTE 790-960, 1710-2170 and 2300-2690 MHz on one port WiFi dual-band 2.4-2.5, 4.9-6 GHz + 3.8-3.8 GHz on two further ports
- Rugged and low profile cabinet and pole/wall mount antenna
- Single hole mounting
- Vandalism proof "IK10" acc. to IEC 62262/2002-02



Electrical data				
	Band 1	**Band 2**	**Band 3**	**Band 4**
Name	Cell/LTE	Cell/LTE	Cell/LTE	2x2 WiFi
Frequency	790 MHz ... 930 MHz	930 MHz ... 960 MHz	1710 MHz ... 2690 MHz	2300 MHz ... 2500 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.2	3	2	1.6
Gain	4 dBi	3 dBi	4 dBi	5 dBi
Isolation between Ports	-20 dB	-20 dB	-15 dB	-15 dB
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	90 W	60 W	40 W	40 W

	Band 5	**Band 6**	**Band 7**
Name	2x2 WiFi	2x2 WiFi	2x2 WiFi
Frequency	2500 MHz ... 2690 MHz	3400 MHz ... 3800 MHz	4900 MHz ... 6400 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	2	2	2
Gain	5 dBi	6 dBi	5 dBi
Isolation between Ports	-15 dB	-18 dB	-18 dB
Ambient Temperature	25 °C	25 °C	25 °C
Composite Power max	30 W	30 W	30 W

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Electrical remarks	
Remarks	GROUND PLANE: Antenna works on metallic as well as on non-metallic ground plane. Indicated gain values are valid for an antenna mounted on metallic ground plane of 0.5m diameter, measured on the end ot the 1 m long pigtails. 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

Ports	Port 1	Port 2	Port 3
Port name	Cellular/LTE	WiFi 1	WiFi 2
Connector	SMA, plug (male)	SMA-reverse, plug (male)	SMA-reverse, plug (male)
Cable type	ENVIROFLEX_316_D	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Cable length	1 m	1 m	1 m
Polarization	vertical	vertical	vertical

Connections	Port 1	Port 2	Port 3
Port name	Cellular/LTE	WiFi 1	WiFi 2
Band 1	✓		
Band 2	✓		
Band 3	✓		
Band 4		✓	✓
Band 5		✓	✓
Band 6		✓	✓
Band 7		✓	✓

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

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Environmental remarks

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 3 WiFi radiaor elements, as described above, for total two up to four ports - 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 - Optional wall / mast mount bracket kit

Ordering information

Item description	Item number	Product name
1399.19.0227	85080441	SENCITY® Omni-S Cellular SISO and 2x2 Wi-fI MIMO Antenna

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