

SENCITY® OMNI-M

1399.17.0310

Properties

- 2-Port Antenna for Cellular
- Supports 2x2 Cellular MIMO for 3G, 4G and 5G
- Rugged design, meets EN 60068 Industrial Standards
- Single hole mounting on cabinet or roof



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Name	Cellular 1-2	Cellular 1-2	Cellular 1-2	Cellular 1-2
Frequency	617 MHz ... 960 MHz	1350 MHz ... 2700 MHz	3300 MHz ... 4200 MHz	4900 MHz ... 7125 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.9	2	1.7	1.7
Gain	2 dBi	5 dBi	6 dBi	6 dBi
Isolation between Ports	9 dB	20 dB	20 dB	20 dB
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	80 W	80 W	80 W	80 W

Electrical remarks

Remarks	Indicated VSWR values and gain are valid for installations on metallic surfaces of 500x500 mm. Please refer to the outline drawing to read the cable pigtail length of each port.
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Ports

	Port 1	Port 2
Port name	Cellular 1-2	Cellular 1-2
Connector	N, jack (female)	N, jack (female)
Cable type	Enviroflex_316_D	Enviroflex_316_D
Polarization	vertical	vertical
DC grounded	Yes	Yes

Connections

	Port 1	Port 2
Port name	Cellular 1-2	Cellular 1-2
Band 1	✓	✓

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Connections		
Band 2	✓	✓
Band 3	✓	✓
Band 4	✓	✓

Mechanical data	
Weight	1.2 kg
Dimensions	62.5 mm x 211.5 mm (Height x Diameter)
Remarks	Corrosion: Low corrosion design according to MIL-F-14072(E), 96 hours Salt Spray test. Mounting: Shall be installed in longitudinal position to the wind/driving direction. Suitable for installation on vehicles with a maximum speed of 160 km/hr.

Material data	
Radome material	PC (Polycarbonate)
Radome colour	RAL 7044 (light grey)
Back plate/base plate material	Aluminium

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-55 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	Mated / IP69
Solar radiation	UL 746C, F1

Environmental remarks
Environmental tests: EN 60068 EN 60068-2-1 Cold temperature test Ad, -55°C, 16h EN 60068-2-2 Dry heat test Bd +85°C, 16h EN 60068-2-30 Damp heat cyclic test Db, +25/55°C, 2 cycles EN 60068-2-11 Salt Mist test Ka, 96h EN 61373 § 9 Mechanical Vibration test, Cat. 2 EN 61373 § 10 Mechanical shock test, Cat. 2 EN 60529 Ingress protection test, IP69

Additional Information
This Antenna is compliant with the Radio Equipment Directive 2014/53/EU ETSI EN 303 413 V1.1.1 (2017-06)

Ordering information		
Item description	Item number	Product name
1399.17.0310	85185026	SENCITY® OMNI-M

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