DATA SHEET

SENCITY® SC OMNI-M Antenna

1399.17.0336

Properties

- Rugged omni-directional antenna for installation on outdoor cabinets
- Supports TETRA, LTE450, 2G/3G/4G/5G cellular, Wifi 2.4/5 GHz, Wifi 6E.
- 5 separate ports for 1x TETRA/cellular and 4x4 Wifi MIMO
- Meets ETSI 300 019-1-4 class 4.1E
- Low profile housing
- Single hole mounting, easy cabling feed-through



Electrical data				
	Band 1	**Band 2**	**Band 3**	**Band 4**
Name	TETRA/LTE450	Cellular	Cellular	Cellular
Frequency	380 MHz ... 470 MHz	694 MHz ... 960 MHz	1350 MHz ... 2700 MHz	3300 MHz ... 4200 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.5	2	2	2
Gain	3 dBi	2 dBi	4 dBi	4 dBi
Isolation between Ports				
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	40 W	40 W	40 W	40 W

	Band 5	**Band 6**	**Band 7**
Name	Cellular	WiFi	WiFi
Frequency	4900 MHz ... 7125 MHz	2400 MHz ... 2500 MHz	4900 MHz ... 7125 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	2	2	2
Gain	5 dBi	6 dBi	6 dBi
Isolation between Ports		20 dB	20 dB
Ambient Temperature	25 °C	25 °C	25 °C
Composite Power max	40 W	30 W	30 W

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Electrical remarks	
Remarks	Ground plane: Indicated VSWR values are valid for a metallic ground plane of 0.5 x 0.5m or larger and Isolation is provided as typical values. Indicated VSWR values are mostly valid for installations on non-metallic surfaces also (no specific ground plane requirements). Indicated gain values will be achieved on a metallic ground plane of 1 x 1 m or larger.

Ports		
	Port 1	**Port 2 to 5**
Port name	Tetra 1 (yellow)	WiFi 1-4 (blue)
Connector	N, jack (female)	N, jack (female)
Cable type	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Cable length	0.5 m	0.5 m
Polarization	vertical	vertical
DC grounded	Yes	Yes

Connections		
	Port 1	Port 2 to 5
Port name	Tetra 1 (yellow)	WiFi 1-4 (blue)
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4	✓	
Band 5	✓	
Band 6		✓
Band 7		✓

Mechanical data	
Weight	1.1 kg
Dimensions	60 mm x 210 mm (Height x Diameter)
Mounting breakthrough	Ø 30 mm

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

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	Mated / IP68, IP69k
Solar radiation	DIN 75220

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Environmental remarks
Environmental tests: ETSI 300 019-4-2 class 4.1E Low corrosion designed acc. to MIL-F-14072D

Ordering information

Item description	Item number	Product name
1399.17.0336	85185565	SENCITY® SC OMNI-M Antenna

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