

SENCITY® Omni-SR MIMO Antenna

1399.17.0246

Properties

- Compact omni-directional 4x4 MIMO cabinet/ceiling mount antenna
- Supports 4x4 WiFi MIMO in Wi-Fi 4 / Wi-Fi 6E bands & 4x4 Cellular MIMO in 2.3 / 2.6 / 3.5 GHz bands
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant according to EN 45545-2 and NFPA-130
- Single hole mounting
- Cable length 1.5m

**Electrical data**

	Band 1	Band 2	Band 3	Band 4
Name	Cell/Wi-Fi	Cell / WiFi	Cellular	Cell / WiFi
Frequency	2300 MHz ... 2500 MHz	2500 MHz ... 2690 MHz	3400 MHz ... 4200 MHz	4900 MHz ... 7125 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.6	1.6	1.6	1.6
Gain	1 dBi	1.5 dBi	3 dBi	3.5 dBi
Isolation between Ports	17 dB	17 dB	24 dB	22 dB
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	10 W	10 W	10 W	10 W

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
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Ports

	Port 1	Port 2	Port 3	Port 4
Port name	Cell/Wi-Fi	Cell/Wi-Fi	Cell/Wi-Fi	Cell/Wi-Fi
Connector	N, plug (male)	N, plug (male)	N, plug (male)	N, plug (male)
Cable type	RADOX_RF_316_D	RADOX_RF_316_D	RADOX_RF_316_D	RADOX_RF_316_D
Cable length	1.5 m	1.5 m	1.5 m	1.5 m
Polarization	vertical	vertical	vertical	vertical

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Ports				
	Port 1	Port 2	Port 3	Port 4
DC grounded	Yes	Yes	Yes	Yes

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

Mechanical data	
Weight	0.92 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	-45 °C ... 85 °C
Storage temperature	-45 °C ... 85 °C
Transport temperature	-45 °C ... 85 °C
Environment (application)	Indoor/Outdoor
Ingress protection (IP Rating)	Mated / IP68, IP69
Flammability rating	EN 45545-2
Solar radiation	DIN 75220

Environmental remarks	
Flamability: EN 45545-2 (2013) HL3, NFPA130 (2013) Environment: EN 50155 (2016) Cooling EN 60068-2-1 (2007), test Ad, -55°C, 8h Dry heat EN-60068-2-2 (2007), test Bb, +85°C, 8h Damp heat cyclic EN 60068-2-30, +25/55°C Temperature change EN 60068-2-14 (2008), -40/+85°C Salt mist EN 60068-2-11 (2008), 96h Mechanical vibration/shock/simulated lifetime: IEC 61373 (2010), § 9 and § 10, category 1B Hammer impact test: EN 60068-2-75 (1997), IEC 62262 (2002) IK10, test Ehc Corrosion: MIL-F-14072 E type 1 "exposed"	

Ordering information		
Item description	Item number	Product name
1399.17.0246	85087896	SENCITY® Omni-SR MIMO Antenna

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