

SENCITY® OMNI-SR LTE WiFi 2x2 MIMO Antenna 1399.17.0264

Description

Compact omni-directional 2x2 MIMO Cellular/WiFi Railway in-carriage antenna.
 Supports cellular 3G 900 / 2100 MHz bands.
 Supports cellular 4G 800 / 1800 / 2600 MHz bands.
 Supports 2x2 WiFi MIMO in all Wi-Fi 6E bands.
 Rugged design, meets EN 50155 railway standard.
 Fire retardant acc. to EN 45545-2 and NFPA130.
 Single hole mounting.
 Cable length 0.5m.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	790 - 900	900 - 960	1710 - 1750	1750 - 2700
VSWR	2	2.3	2.3	1.8
Impedance (Ohm)	50	50	50	50
Gain (dBi)	4	4	4	6
Ambient temperature (°C)	25	25	25	25
Port Isolation (dB)	5	5	12	12

	Band 5	Band 6
Frequency (MHz)	4900 - 6425	6425 - 7125
VSWR	1.5	2.2
Impedance (Ohm)	50	50
Gain (dBi)	6	6
Ambient temperature (°C)	25	25
Port Isolation (dB)	20	26

Ports

	Port 1	Port 2
Port name	Cell/WiFi	Cell/WiFi
Connector	N, plug (male)	N, plug (male)
Cable Type	RADOX_RF_316_D	RADOX_RF_316_D
Cable Length (m)	0.5	0.5
Min. radius static (mm)	5	5
Min. radius dynamic (mm)	30	30
Polarization	vertical	vertical
DC grounded	Yes	Yes

Connections

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Port 1	X	X	X	X	X	X
Port 2	X	X	X	X	X	X

General Data

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Ground plane: Antenna works on metallic as well as on non-metallic ground plane. Indicated gain and VSRW values are valid for an antenna mounted on metallic ground plane of 0.5m diameter.

Mechanical Data

Dimensions (mm)	33.2 x 145 (Height x Diameter)
Weight (kg)	0.9

Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-45 to 85
Storage temperature (°C)	-45 to 85
Transport temperature (°C)	-45 to 85
IP rating	IP68, IP69
Flammability rating	EN 45545-2
Solar radiation	UL 746C, F1
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
Lead-free soldered	yes
WEEE 2012/19/EU	no special marking needed
REACH 1907/2006/EC	compliant

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"

Material Data

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

Related Documents

Mounting instruction	DOC-0000756790
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00388880
3D-model	DOC-0000890132

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