DATA SHEET

SENCITY® Rail Antenna

87010009

Properties

- Railway rooftop multiband antenna for 430-470 MHz and 870-960 MHz
- The antenna can be operated in all frequency ranges simultaneously
- Multiple Antenna installations support Cellular MIMO
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN 45545-2
- Works also on non-metallic surfaces



Electrical data		
	Band 1	**Band 2**
Frequency	430 MHz ... 470 MHz	870 MHz ... 960 MHz
Impedance	50 Ω	50 Ω
VSWR	1.5	1.5
Gain	3.5 dBi	4.5 dBi
Ambient Temperature	25 °C	25 °C

Electrical remarks	
Remarks	Indicated VSWR values are valid for a metallic ground plane of 0.5 mx 0.5 m or larger. Indicated Gain values are valid for a metallic ground plane of 1.0 m x 1.0 m or larger.

Ports	
	Port 1
Port name	Tetra/Cell
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

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Connections	
	Port 1
Port name	Tetra/Cell
Band 1	✓
Band 2	✓

Mechanical data	
Weight	0.5 kg
Dimensions	150 mm x 145 mm x 85 mm (Height x Width x Depth)
	Packaging size (outside): 150 x 90 x 190 mm
Remarks	Radiator: Copper and brass. Flange: Aluminum. All screws and nuts: Stainless steel. Sealing: Neoprene and silicon

Material data	
Radome material	Fiberglass
Radome colour	Grey
Back plate/base plate material	Aluminum
Back plate/base plate colour	Black

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	Mated / IP66
Flammability rating	EN 45545-2

Environmental remarks
Environmental tests: EN 50155:2018-05

Additional Information
This antenna, tested by an independent institute, is DC grounded to protect against lightning and short circuit with high voltage lines.

Antenna accessories remarks
2501.17.0091 Diplexer 80 - 520 / 694 - 2700 MHz can be used to operate both frequencies simultaneously.

Ordering information

Item description	Item number	Product name
87010009	84460314	SENCITY® Rail Antenna

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