

SENCITY® Rail Antenna

87010010

Properties

- Railway rooftop antenna for 1800/1900/UMTS/LTE/WiFi 1/Wi-Fi 3 band
- Multiple Antenna installations support Cellular and Wi-Fi MIMO
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN45545-2
- Contains a heavy-duty fiberglass radome
- Works also on non-metallic surfaces

**Electrical data**

	Band 1	Band 2	Band 3	Band 4
Frequency	1710 MHz ... 1920 MHz	1920 MHz ... 2600 MHz	2600 MHz ... 3200 MHz	3200 MHz ... 3800 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.7	1.5	1.6	1.5
Gain	7 dBi	6.5 dBi	5.5 dBi	7 dBi
Ambient Temperature	25 °C	25 °C	25 °C	25 °C

Electrical remarks

Remarks	Indicated VSWR values are valid for a metallic ground plane of 500mm x 500mm or larger.
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Ports

	Port 1
Port name	Cell/Wi-Fi
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

Connections

	Port 1
Port name	Cell/Wi-Fi
Band 1	✓

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Connections	
Band 2	✓
Band 3	✓
Band 4	✓

Mechanical data	
Weight	0.45 kg
Dimensions	81 mm x 145 mm x 85 mm (Height x Width x Depth)
Remarks	Wind load frontal: 0.5 N at 600 km/h, lateral: 0.05 N at 600 km/h
	Packaging size (outside): 152 x 91 x 125 mm
	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

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DOCUMENT PIM-P1233 / Date of publication: 25.06.2026 / uncontrolled copy