

**SENCITY® Rail Antenna**

87010007

**Properties**

- Railway rooftop antenna for sub-2700 MHz  
2G/3G/4G cellular and Wi-Fi 1/ Wi-Fi 3 bands (790 to 2700 MHz)
- Multiple Antenna installations support Cellular and Wi-Fi MIMO
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN 45545-2

**Electrical data**

	Band 1	Band 2	Band 3	Band 4
Frequency	790 MHz ... 960 MHz	960 MHz ... 1710 MHz	1710 MHz ... 2200 MHz	2200 MHz ... 2700 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.2	1.5	1.5	1.8
Gain	4.5 dBi	5.5 dBi	7.5 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 1M x 1M 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	✓
Band 2	✓
Band 3	✓

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<b>Connections</b>		
Band 4		✓
<b>Mechanical data</b>		
Weight	0.5 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.	
<b>Material data</b>		
Radome material	Fiberglass	
Radome colour	Grey	
Back plate/base plate material	Aluminum	
Back plate/base plate colour	Black	
<b>Environmental data</b>		
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	
<b>Environmental remarks</b>		
Environmental tests: EN 50155:2018-05		
<b>Ordering information</b>		
Item description	Item number	Product name
87010007	84459410	SENCITY® Rail Antenna

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