

SENCITY® Rail Antenna

87010010

Properties

- Railway rooftop antenna for 1800/1900/UMTS/LTE/WiFi 1/Wi-Fi 3 band
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN45545-2
- Contains a heavy duty fibreglass radome



Electrical bands				
	Band 1	Band 2	Band 3	Band 4
Name	Cell / WiFi	Cell/Wi-Fi	Cell/Wi-Fi	Cell/Wi-Fi
Frequency (MHz)	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 (dBi)	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 number	Port 1
Band 1	✓
Band 2	✓
Band 3	✓
Band 4	✓

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Mechanical data	
Weight	0.45 kg
Dimensions	81 mm x 145 mm x 85 mm (Height x Width x Depth)
Remarks	All screws and nuts: Stainless steel. Sealing: Neoprene and silicon.

Interface and material data	
Radome material	Fiberglass
Radome colour	Grey

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

Environmental remarks
Environmental tests: EN 50155:2018-05 Flammability rating: EN 45545-2

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