

Sencity Rail Antenna 87010010

Description

Railway rooftop antenna for 1800/1900/UMTS/LTE/Wi-Fi 1/Wi-Fi 3 bands.
Multiple Antenna installations support Cellular and Wi-Fi MIMO.
Rugged design, meets EN 50155 railway standard.
Fire retardant acc. to EN 45545-2.
Works also on non-metallic surfaces.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	1710 - 1920	1920 - 2600	2600 - 3200	3200 - 3800
VSWR	1.7	1.5	1.6	1.5
Impedance (Ohm)	50	50	50	50
Gain (dBi)	7	6.5	5.5	7
Ambient temperature (°C)	25	25	25	25

Ports

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

Connections

	Band 1	Band 2	Band 3	Band 4
Port 1	X	X	X	X

General Data

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

Mechanical Data

Dimensions (mm)	81 x 145 x 85 (Height x Width x Depth)
Weight (kg)	0.45
Windload	frontal: 0.5 N at 600 km/h, lateral: 0.05 N at 600 km/h, Wind speed survival: km/h

Radiator: Copper and brass.
Flange: Aluminum.
Radome: Fiberglass.
All screws and nuts: Stainless steel.
Colour: Grey.
Sealing: Neoprene and silicon.

Packaging size (outside): 152 x 91 x 125 mm

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85

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IP rating	IP66
Flammability rating	EN 45545-2
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

Environmental tests: EN 50155:2018-05

Flammability rating: EN 45545-2.

Material Data

Radome colour	grey
Back plate/base plate colour	black
Back plate/base plate material	Aluminium

Related Documents

Mounting instruction	DOC-0000862989
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00389005
3D-model	DOC-0000863468