

## Sencity Rail Antenna 87010007

### Description

Railway rooftop antenna for sub-2700 MHz 2G/3G/4G cellular and Wi-Fi 1/ Wi-Fi 3 bands.

Multiple Antenna installations support Cellular and WiFi MIMO.

Rugged design, meets EN 50155 railway standard.

Fire retardant acc. to EN 45545-2.



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	790 - 960	960 - 1710	1710 - 2200	2200 - 2700
VSWR	2.2	1.5	1.5	1.8
Impedance (Ohm)	50	50	50	50
Gain (dBi)	4.5	5.5	7.5	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 1M x 1M or larger.

#### Mechanical Data

Dimensions (mm)	81 x 145 x 85 (Height x Width x Depth)
Weight (kg)	0.5
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

## Sencity Rail Antenna 87010007

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-00388981
3D-model	DOC-0000863468