

## Sencity Rail Antenna 87010005

### Description

Railway rooftop antenna for 380-430 MHz.  
Embedded GPS antenna (requires separate LNA such as 86010142).  
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 Name		GPS
Frequency (MHz)	380 - 430	1574.4 - 1576.4
VSWR	1.5	2
Impedance (Ohm)	50	50
Gain (dBi)	4	6
Ambient temperature (°C)	25	25

##### Ports

	Port 1	Port 2
Connector	N, jack (female)	TNC, plug (male)
Polarization	vertical	circular right
DC grounded	Yes	Yes

##### Connections

	Band 1	Band 2
Port 1	X	
Port 2		X

##### General Data

Indicated VSWR values are valid for a metallic ground plane of 1M x 1M or larger.

Low noise amplifier GPS 86010142 (please order separately).

##### Mechanical Data

Dimensions (mm) 150 x 145 x 85 (Height x Width x Depth)  
Weight (kg) 0.5

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

This antenna, tested by an independent institute is DC grounded to protect against lightning and short circuit with high-voltage lines.

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Packaging size (outside): 150 x 90 x 190 mm

### Environmental Data

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

86010142 Low Noise Amplifier GNSS (GPS, GLONASS, BEIDOU, GALILEO)

### Related Documents

Mounting instruction	DOC-0000864312
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00389175
3D-model	DOC-0000864308