

SENCITY® Rail Antenna with GPS

87010005

Properties

- Railway rooftop antenna for 380 to 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.

**Electrical data**

	Band 1	Band 2
Name	Tetra	GPS
Frequency	380 MHz ... 430 MHz	1574.4 MHz ... 1576.4 MHz
Impedance	50 Ω	50 Ω
VSWR	1.5	2
Gain	4 dBi	6 dBi
Ambient Temperature	25 °C	25 °C

Electrical remarks

Remarks	Indicated VSWR values are valid for a metallic ground plane of 1M x 1M or larger. Low noise amplifier GPS 86010142 (please order separately)
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Ports

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

Connections

	Port 1	Port 2
Band 1	✓	
Band 2		✓

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Mechanical data	
Weight	0.5 kg
Dimensions	150 mm x 145 mm x 85 mm (Height x Width x Depth)
Remarks	Radiator: Copper and Brass Flange: Anodized Aluminum 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.

Material data	
Radome material	Fiberglass
Radome colour	Grey
Back plate/base plate material	Aluminum
Back plate/base plate colour	Black

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

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

Antenna accessories		
Item description	Item number	Product name
86010142	84460305	SENCITY® Low Noise Amplifier GNSS (GPS, GLONASS, BeiDou, Galileo)

Ordering information		
Item description	Item number	Product name
87010005	84460307	SENCITY® Rail Antenna with GPS

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