SENCITY® Rail Antenna with GPS

87010006

Properties

- Railway rooftop multiband antenna for 430-470 MHz and 870-960 MHz
- Embedded GPS antenna (requires seperate LNA such as 86010142)
- The antenna can be operated in all frequency ranges simultaneously
- Multiple Antenna installations support Cellular MIMO
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN 45545-2
- Works also on nonmetallic surfaces



Electrical bands

	Band 1	Band 2	Band 3
Name			GPS
Frequency	430 MHz 470 MHz	870 MHz 960 MHz	1574.4 MHz 1576.4 MHz
VSWR	1.5	1.5	2
Impedance	50 Ω	50 Ω	50 Ω
Gain	3.5 dBi	4.5 dBi	6.5 dBi
Ambient Temperature	25 °C	25 °C	

Electrical remarks

Remarks

Ports

	Port 1	Port 2		
Port name	Tetra/Cell	GPS		
Connector	N, jack (female)	TNC, plug (male)		
Polarization	vertical	circular right		





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Weight 0.5 kg Dimensions 150 mm x 145 mm x 85 mm Packaging size (outside): Radiator: Copper and bit Remarks Flange: Anodized Aluminin All screws and nuts: Stail Sealing: Neoprene and stail		
Connections Port number Port 1 Poil Band 1 Image: Second Seco	Port 2	
Port number Port 1 Port 1 Band 1 Ø Band 2 Ø Band 3 Ø Image: Constraint of the state of	Yes	
Port number Port 1 Port 1 Band 1 Ø Band 2 Ø Band 3 Ø Image: Constraint of the state of		
Band 1 Band 2 Band 2 Band 3 Mechanical data Weight 0.5 kg Dimensions 150 mm x 145 mm x 85 mm Packaging size (outside), Radiator: Copper and bi Flange: Anodized Alumini All screws and nuts: Stai Sealing: Neoprene and s Interface and material data Interface and material 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		
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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	Radiator: Copper and brass. Flange: Anodized Aluminum. All screws and nuts: Stainless steel. Sealing: Neoprene and silicon.	
Radome colour Grey Back plate/base plate material Aluminum Back plate/base plate colour Black Environmental data Operation temperature -40 °C 85 °C		
Back plate/base plate material Aluminum Back plate/base plate colour Black Environmental data -40 °C 85 °C	Fiberglass	
Back plate/base plate colour Black Environmental data Operation temperature -40 °C 85 °C	Grey	
Environmental data Operation temperature -40 °C 85 °C	Aluminum	
Operation temperature -40 °C 85 °C	Black	
Storage temperature -40 °C 85 °C	-40 °C 85 °C	
Environment (application) Outdoor	Outdoor	
Ingress protection (IP Rating) Mated / IP66	Mated / IP66	
Flammability rating EN 45545-2	EN 45545-2	
Environmental remarks		
Environmental tests: EN 50155:2018-05		

Additional Information

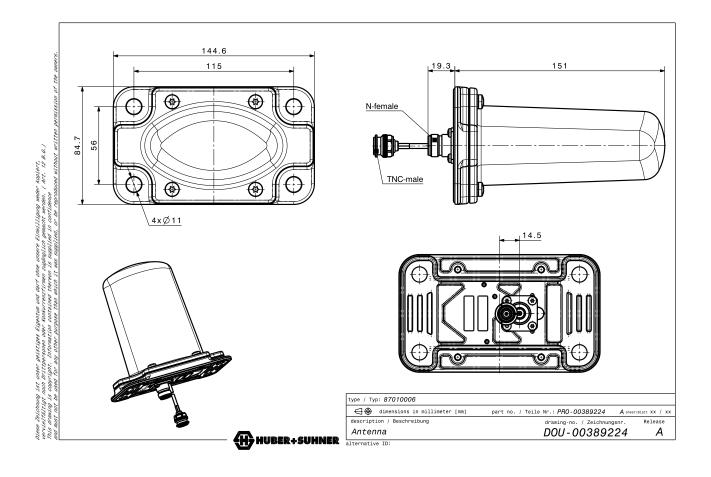
This antenna, tested by an independent institute, is DC grounded to protect against lightning and short circuit from highvoltage lines



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Outline drawing



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