

SENCITY® Rail Antenna

87010007

Properties

- Railway rooftop antenna for sub-2700 MHz 2G/3G/4G cellular and Wi-Fi 1/ Wi-Fi 3 bands (790 to 2700 MHz)
- Multiple Antenna installations support Cellular and Wi-Fi MIMO
- Rugged design, meets EN 50155 Railway Standard
- Fire retardant acc. to EN 45545-2

**Electrical bands**

	Band 1	Band 2	Band 3	Band 4
Frequency	790 MHz ... 960 MHz	960 MHz ... 1710 MHz	1710 MHz ... 2200 MHz	2200 MHz ... 2700 MHz
VSWR	2.2	1.5	1.5	1.8
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Gain	4.5 dBi	5.5 dBi	7.5 dBi	7 dBi
Ambient Temperature	25 °C	25 °C	25 °C	25 °C

Electrical remarks

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

Ports

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

Connections

Port number	Port 1
Band 1	✓
Band 2	✓
Band 3	✓

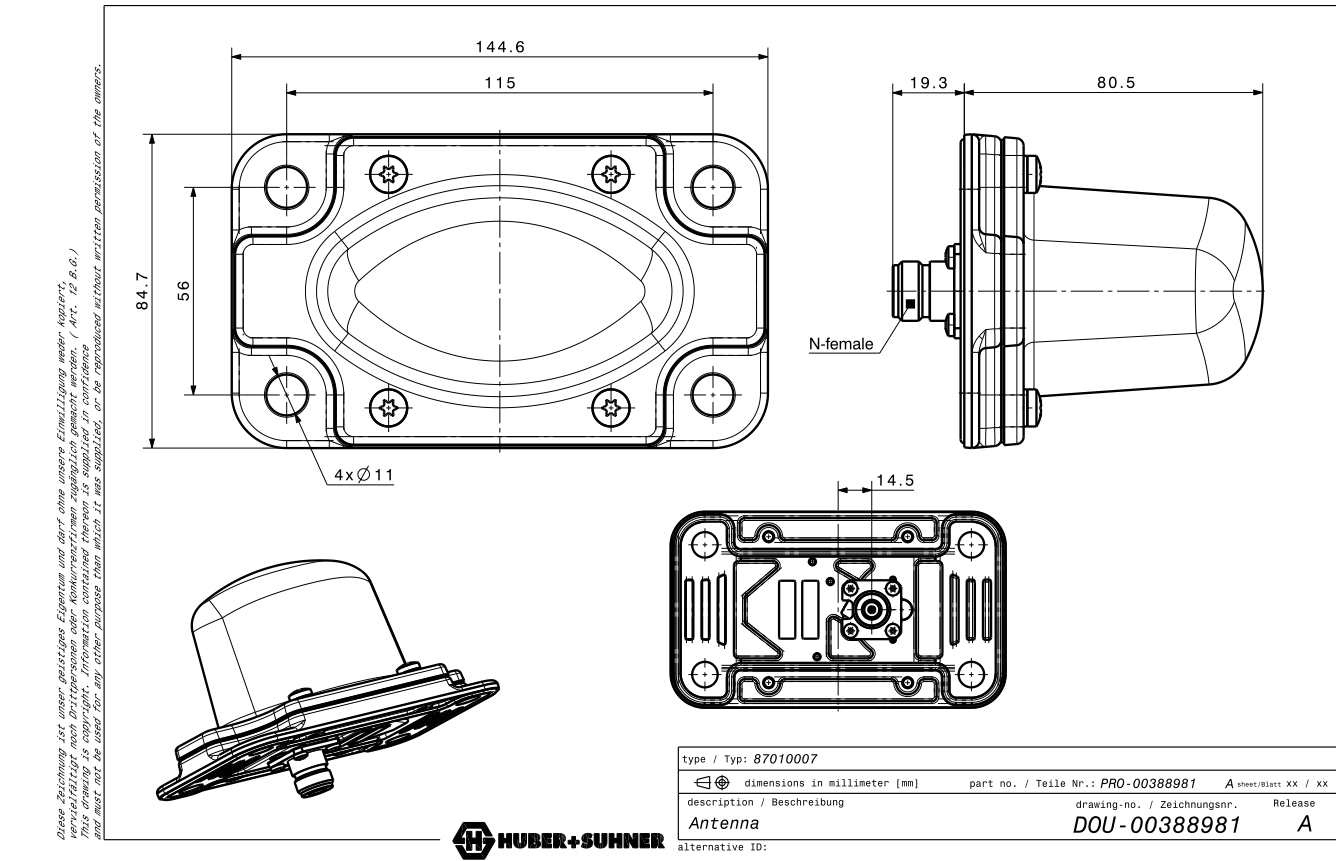
SENCITY® Rail Antenna

87010007

Connections	
Band 4	
Mechanical data	
Weight	0.5 kg
Dimensions	81 mm x 145 mm x 85 mm (Height x Width x Depth)
Remarks	Wind load: frontal: 0.5 N at 600 km/h, lateral: 0.05 N at 600 km/h
	Packaging size (outside): 152 x 91 x 125 mm
	Radiator: Copper and brass.
	Flange: Aluminum.
	All screws and nuts: Stainless steel.
	Sealing: Neoprene and silicon.
Interface and 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)	Mated / IP66
Flammability rating	EN 45545-2
Environmental remarks	
Environmental tests: EN 50155:2018-05	

SENCITY® Rail Antenna
87010007

Outline drawing



HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/ EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P1236 / Date of publication: 10.06.2024 / uncontrolled copy