

Sencity Rail Antenna 87010003

Description

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

Embedded GPS antenna (requires separate LNA such as 86010142).

Multiple Antenna installations support Cellular and WiFi MIMO.

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 3 | Band 4 |
|--------------------------|-----------|------------|-------------|-------------|
| Frequency (MHz) | 790 - 960 | 960 - 1710 | 1710 - 2200 | 2200 - 2700 |
| VSWR | 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 |

| | Band 5 |
|--------------------------|-----------------|
| Band Name | GPS |
| Frequency (MHz) | 1574.4 - 1576.6 |
| VSWR | 2 |
| Impedance (Ohm) | 50 |
| Gain (dBi) | 5.5 |
| Ambient temperature (°C) | 25 |

Ports

| | Port 1 | Port 2 |
|--------------|------------------|------------------|
| Port name | Cell / WiFi | GPS |
| Connector | N, jack (female) | TNC, plug (male) |
| Polarization | vertical | circular right |
| DC grounded | Yes | Yes |

Connections

| | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 |
|--------|--------|--------|--------|--------|--------|
| Port 1 | X | X | X | 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) | 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 |

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Radiator: Copper and brass.
Flange: Anodized 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 |
| IP rating | IP66 |
| Flammability rating 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | EN 45545-2 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-0000862989 |
| Painting instruction | DOC-0000256180 |
| Security instruction | DOC-0000278984 |
| Outline drawing | DOU-00388992 |
| 3D-model | DOC-0000863405 |

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