

Sencity Rail Antenna 1399.17.0094

Description

Railway rooftop antenna for Tetra, DVB-T, 2G/3G/4G/5G cellular and Wifi 2.4/5 GHz bands.
 Multiple Antenna installations support Cellular and WiFi MIMO.
 Rugged design, meets EN 50155 railway standard.
 Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.
 Dedicated grounding contact (optional).
 Cable conduit support (optional).



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	380 - 694	694 - 960	1350 - 2700	2700 - 3300
VSWR	1.8	1.8	1.5	1.5
Impedance (Ohm)	50	50	50	50
Gain (dBi)	3	4	7.5	6.5
Composite power max (W)	800	550	350	350
Ambient temperature (°C)	25	25	25	25

	Band 5	Band 6
Frequency (MHz)	3300 - 4900	4900 - 6425
VSWR	1.7	1.5
Impedance (Ohm)	50	50
Gain (dBi)	7	8
Composite power max (W)	300	300
Ambient temperature (°C)	25	25

Ports

	Port 1
Connector	N, jack (female)
Polarization	vertical
DC grounded	Yes

General Data

Indicated VSWR values are valid for a metallic ground plane of 0.5 x 0.5m or larger. Indicated gain values will be achieved on a metallic ground plane of 1 x 1 m or larger.

Mechanical Data

Dimensions (mm) 154 x 100 x 256 (Height x Width x Depth)
 Weight (kg) 1.6

High-voltage-protection: no voltage on RF port, if the catenary line touches the antenna (EN 50124-1, 27.5 kVAC).

High-current-protection: Designed acc. to UIC 533, DC-grounded antenna element (protection against lightning and short circuit with catenary lines(40kA/0.1s).

Corrosion: Low corrosion design acc. to MIL-F-14072(E).

Mounting: Shall be installed in longitudinal position to the wind/driving direction.

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Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP69
Flammability rating	DIN 5510
Solar radiation	DIN 75220
RoHS 2011/65/EU	compliant
WEEE 2012/19/EU	no special marking needed
REACH 2006/1907/EC	compliant

Environmental tests: EN 50155:2007

Flammability rating DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back plate/base plate material	Aluminium

Related Products

9091.99.0235 Sencity Rail Antenna grounding kit

9091.99.0236 Sencity Rail antenna conduit support Kit

9091.99.0261 Sencity Rail antenna mounting plate

9091.99.0252 Sencity Rail antenna adaptor plate

Related Documents

Mounting instruction	DOC-0000295392
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00143013
Outline drawing 2	DOU-00154160
3D-model	DOC-0000324006

Additional Information

This product meets the Deutsche Bahn specifications for rolling stock equipment.

Mouser Electronics

Authorized Distributor

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