

## Sencity Rail MIMO Antenna 1399.17.0135

SWA-0825/360/5/30/MIMO

### Description

Railway rooftop antenna for 2G/3G/4G cellular and WiFi 2.4 and 5 GHz bands.  
Supports 2x2 cellular MIMO for UMTS and LTE.  
Rugged design, meets EN 50155 railway standard.  
Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, EN 45545-2.  
Extremely low profile (40mm).



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	790 - 806	806 - 870	870 - 960	1710 - 2500
VSWR	2.2	1.8	1.5	1.9
Impedance (Ohm)	50	50	50	50
Gain (dBi)	5	5	5	6
Port Isolation (dB)	18	18	18	18

  

	Band 5	Band 6
Frequency (MHz)	2500 - 2700	4900 - 5935
VSWR	2.2	2.1
Impedance (Ohm)	50	50
Gain (dBi)	6	8
Port Isolation (dB)	20	30

#### Ports

	Port 1	Port 2
Connector	N, jack (female)	N, jack (female)
Cable Type	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Cable Length (m)	0.2	0.2
Polarization	vertical	vertical

#### Connections

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Port 1	X	X	X	X	X	X
Port 2	X	X	X	X	X	X

#### General Data

DC Grounding	Yes
Composite Power max (W)	10

Indicated VSWR values are valid for a metallic ground plane of 0.5 x 1 m or larger.

#### Mechanical Data

Dimensions (mm)	40 x 100 x 465 (Height x Width x Depth)
Weight (kg)	1.2

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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. 4x composite sealing washers included for silicone-free sealing of the mounting screws.

### Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-55 to 85
IP rating	IP69K
Solar radiation	DIN 75220
RoHS 2011/65/EC	compliant
REACH 2006/1907/EC	compliant

Environmental tests: EN 50155

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

9090.99.0062 Sencity Rail Mounting plate \*\*\*Customer specific\*\*\*

9091.99.0257 Sencity Rail - M10 sealing washer kit

### Related Documents

Mounting instruction	DOC-0000714303
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00298127
3D-model	DOC-0000691532

### Additional Information

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

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, ISO/TS 16949 and IRIS

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