Data Sheet

HUBER+SUHNER

SENCITY® Tram MULTI Antenna
1399.19.0234

Description

Rugged vehicle rooftop multi-band antenna for Light Rail.

Supports Wifi 2.4/5 GHz, Wifi 6E.

6 separate ports for 6x6 Wifi MIMO.

Meets EN50155 railway standard.

Fire retardant acc. to EN45545-2 and NFPA-130.

Single hole mounting, easy cabling feed-through.

Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2
Band Name	WiFi	WiFi
Frequency (MHz)	2400 - 2500	4900 - 7125
VSWR	2	2
Impedance (Ohm)	50	50
Gain (dBi)	6	6
Composite power max (W)	30	30
Ambient temperature (°C)	25	25
Port isolation (dB)	24	24

Ports

	Port 1 to 6
Port name	WiFi 1-6 (blue)
Connector	SMA, plug (male)
Cable Type	RADOX_RF_316_D
Cable Length (m)	0.3
Polarization	Vertical
DC Grounded	Yes

Connections

	Band 1	Band 2
Port 1 to 6	X	X

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General Data

Ground plane: Indicated VSWR values are valid for a metallic ground plane of 0.5 x 0.5m or larger and Isolation is provided as typical values. Indicated VSWR values are mostly valid for installations on non-metallic surfaces also (no specific ground plane requirements). Indicated gain values will be achieved on a metallic ground plane of 1 x 1 m or larger.

Mechanical Data

Dimensions (mm)	210 x 60 (Diameter x Height)
Weight (kg)	1.1
Mounting breakthrough	Ø30mm

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	IP68, IP69k
Flammability rating	EN45545-2, NFPA-130
Solar radiation	DIN 75220
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
REACH 1907/2006/EC	compliant

Environmental tests: EN50155:2018-05
High-voltage protection: EN50124-1:2017-03
Low corrosion designed acc. to MIL-F-14072D
CE-Mark

Material Data

Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate/base plate material	Aluminium

Related Products
(Order separately)
9091.99.0250 Metal ground plane foil 0.6x0.6m

Related Documents

Mounting instruction	DOC-0001163416
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-01158994
3D-model	DOC-0001155892