### **Data Sheet**

# SENCITY® Tram MULTI Antenna 1399.99.0235

### Description

Rugged vehicle rooftop multi-band antenna for Light Rail. Supports Wifi 2.4/5 GHz, Wifi 6E and Dual Band GNSS (Beidou, Galileo, GPS, Glonass). 7 separate ports for 6x6 Wifi MIMO plus GNSS. 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 3 Band 4 WiFi WiFi GNSS GNSS Band Name 2400 - 2500 4900 - 7125 1559 - 1610 Frequency (MHz) 1559 - 1610 VSWR 2 2 1.8 1.8 Impedance (Ohm) 50 50 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 8	Port 9
Port name	WiFi 1-8 (blue)	GNSS (black)
Connector	SMA, plug (male)	TNC, plug (male)
Cable Type	RADOX_RF_316_D	RADOX_RF_316_D
Cable Length (m)	0.3	0.3
Polarization	Vertical	Circular right
DC Grounded	Yes	No

#### Connections

Band 1	Band 2	Band 3	Band 4				
Х	Х						
		х	X				
	Band 1	Band 1 Band 2	Band 1 Band 2 Band 3	Band 1 Band 2 Band 3 Band 4			

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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.

Electrical Data LNA					
LNA noise figure dB LNA current consumption (mA) LNA is connected to LNA input voltage range: LNA gain Total gain @90° elevation:	2 45 Port 9 3.5V 38 dB 42 dBiC				
Mechanical Data					
Dimensions (mm) Weight (kg) Mounting breakthrough	210 x 60 (Diameter x Height) 1.1 Ø30mm				
Environmental Data					
Environmental conditions Operation temperature (°C) Storage temperature (°C) Transport temperature (°C) IP rating Flammability rating Solar radiation 2011/65/EU (RoHS - including 2015/863 and 2017/2102) REACH 1907/2006/EC Environmental tests: EN50155:2018-05	outdoor -40 to 85 -40 to 85 -40 to 85 IP68, IP69k EN45545-2, NFPA-130 DIN 75220 compliant compliant				
High-voltage protection: EN50155:2018-05 High-voltage protection: EN50124-1:2017-03 Low corrosion designed acc. to MIL-F-14072D This Antenna is compliant with the Radio Equipment Directive 2014/53/EU CE-Mark					
Material Data					
Radome colour Radome material Back plate/base plate material	RAL 9017 (black) PC (Polycarbonate) Aluminium				
<b>Related Products</b> (Order separately) 9091.99.0250 Metal ground plane foil 0.6x0.6m					
Related Documents					
Mounting instruction Painting instruction	DOC-0001163416 DOC-0000256180				

Mounting manuction	DOC-0001103410
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-01158994
3D-model	DOC-0001155892

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

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Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.