

SENCITY® Tram MULTI Antenna
1399.99.0236

Properties

- Supports Wifi 2.4/5 GHz, Wifi 6E and GNSS (Beidou, Galileo, GPS, Glonass)
- 9 separate ports 8x8 Wifi MIMO plus GNSS
- Meets EN50155 railway standard
- Fire retardant acc. to EN45545-2 and NFPA-130
- Single hole mounting, easy cabling feed-through



Electrical data			
	Band 1	Band 2	Band 3
Name	WiFi	WiFi	GNSS
Frequency	2400 MHz ... 2500 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	2	2	1.8
Gain	6 dBi	6 dBi	
Isolation between Ports	24 dB	24 dB	
Ambient Temperature	25 °C	25 °C	
Composite Power max	30 W	30 W	

Electrical remarks	
Remarks	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.

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	0.3 m	0.3 m
Polarization	vertical	circular right

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Ports		
	Port 1 to 8	Port 9
DC grounded	Yes	No

Connections		
	Port 1 to 8	Port 9
Port name	WiFi 1-8 (blue)	GNSS (black)
Band 1	✓	
Band 2	✓	
Band 3		✓

Electrical data LNA	
Input voltage	3 V ... 5 V
Current consumption	20 mA
Noise figure	1.6 dB
Total gain @90° elevation	30 dBic
Remarks	LNA is connected to Port 9

Mechanical data	
Weight	1.1 kg
Dimensions	60 mm x 210 mm (Height x Diameter)
Mounting breakthrough	Ø 30 mm

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

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	Mated / IP68, IP69k
Flammability rating	EN 45545-2
Solar radiation	DIN 75220

Environmental remarks
Environmental tests: 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

Ordering information		
Item description	Item number	Product name
1399.99.0236	85185420	SENCITY® Tram MULTI Antenna

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