

SENCITY® Tram MULTI Antenna

1399.19.0248

Properties

- Supports TETRA, LTE450, 2G/3G/4G/5G cellular, Wifi 2.4/5 GHz, Wifi 6E.
- 4 separate ports for 2x2 TETRA/cellular MIMO and 2x2 Wifi MIMO
- Meets EN50155 railway standard
- Fire retardant acc. to EN45545-2 and NFPA-130
- Single hole mounting, easy cabling feed-through
- Rugged vehicle rooftop multi-band antenna for Light Rail



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Name	TETRA/LTE450	Cellular	Cellular	Cellular
Frequency	380 MHz ... 470 MHz	617 MHz ... 960 MHz	1350 MHz ... 2700 MHz	3300 MHz ... 4200 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.5	2.1	2.1	2.1
Gain	3 dBi	2 dBi	4 dBi	4 dBi
Isolation between Ports	3 dB	8 dB	15 dB	20 dB
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	40 W	40 W	40 W	40 W

	Band 5	Band 6	Band 7
Name	Cellular	WiFi	WiFi
Frequency	4900 MHz ... 7125 MHz	2400 MHz ... 2500 MHz	4900 MHz ... 7125 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	2.1	2.1	2.1
Gain	5 dBi	6 dBi	6 dBi
Isolation between Ports	20 dB	20 dB	20 dB
Ambient Temperature	25 °C	25 °C	25 °C
Composite Power max	40 W	30 W	30 W

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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 2	Port 3 to 4
Port name	Tetra 1-2 (White)	WiFi 1-2 (blue)
Connector	SMA, plug (male)	SMA, plug (male)
Cable type	RADOX_RF_316_D	RADOX_RF_316_D
Cable length	0.3 m	0.3 m
Polarization	vertical	vertical
DC grounded	Yes	Yes

Connections		
	Port 1 to 2	Port 3 to 4
Port name	Tetra 1-2 (White)	WiFi 1-2 (blue)
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4	✓	
Band 5	✓	
Band 6		✓
Band 7		✓

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
Ingress protection (IP Rating)	IP68, IP69k
Flammability rating	EN 45545-2 NFPA-130
Solar radiation	DIN 75220

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

Ordering information		
Item description	Item number	Product name
1399.19.0248	85185534	SENCITY® Tram MULTI Antenna

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