

SENCITY® Tram MULTI Antenna
1399.99.0217

Properties

- Supports 2G/3G/4G/5G cellular and GNSS
- 5 separate ports for 4x4 cellular MIMO plus GNSS
- Fire retardant acc. to EN45545-2 and NFPA-130
- Meets EN50155 railway standard
- Single hole mounting, easy cabling feed-through



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Name	Cellular	Cellular	Cellular	Cellular
Frequency	617 MHz ... 960 MHz	1350 MHz ... 2700 MHz	3300 MHz ... 4200 MHz	4900 MHz ... 7125 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2	2.1	2	2
Gain	2 dBi	4 dBi	4 dBi	5 dBi
Isolation between Ports	9 dB	18 dB	15 dB	18 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	
Name	GNSS		GNSS	
Frequency	1164 MHz ... 1279 MHz		1559 MHz ... 1610 MHz	
Impedance	50 Ω		50 Ω	
VSWR	1.5		1.8	
Gain				
Isolation between Ports				
Ambient Temperature				
Composite Power max				
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.		

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Ports		
	Port 1 to 4	Port 5
Port name	Cell 1-4 (White)	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
DC grounded	Yes	No

Connections		
	Port 1 to 4	Port 5
Port name	Cell 1-4 (White)	GNSS (black)
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4	✓	
Band 5		✓
Band 6		✓

Electrical data LNA	
LNA is connected to	Port 5
Input voltage	3 V ... 5 V
Current consumption	45 mA
Noise figure	2 dB
Total gain @90° elevation	42 dBic

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)	Mated / 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 (tested without stick antenna) 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
1399.99.0217	85185386	SENCITY® Tram MULTI Antenna

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DOCUMENT PIM-P35284 / Date of publication: 18.07.2025 / uncontrolled copy