

SENCITY® Tram Antenna
1399.99.0207

Properties

- Supports Tetra and Wifi 2.4/5 GHz, Wifi 6E bands and GNSS. Stick antenna option for Cellular, VHF, etc.
- Embedded GNSS antenna with integrated low-noise amplifier
- Offers a stick antenna socket and separate connector for each application.
- Fire retardant acc. to EN45545-2 and NFPS-130



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Name				GNSS
Frequency	410 MHz ... 430 MHz	2400 MHz ... 2690 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2	1.8	1.8	1.8
Gain	4 dBi	7 dBi	7 dBi	
Isolation between Ports	20 dB	20 dB	20 dB	
Ambient Temperature	25 °C	25 °C	25 °C	
Composite Power max	40 W	40 W	30 W	

	Band 5
Name	Socket
Frequency	
Impedance	
VSWR	
Gain	
Isolation between Ports	
Ambient Temperature	
Composite Power max	

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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. In the 790-5935 MHz band, indicated VSWR values are also valid for installations on non-metallic surfaces. Available stick antennas see section 'Related products'.
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Ports

	Port 1	Port 2	Port 3	Port 4
Port name	Tetra (yellow)	Wifi 1 (blue)	GNSS (black)	(red)
Connector	SMA, jack (female)	SMA, jack (female)	TNC, plug (male)	SMA, jack (female)
Cable type	RADOX_RF_316_D	RADOX_RF_316_D	RADOX_RF_316_D	RADOX_RF_316_D
Cable length	0.3 m	0.3 m	0.3 m	0.3 m
Polarization	vertical	vertical	circular right	
DC grounded	No	No	No	No

Connections

	Port 1	Port 2	Port 3	Port 4
Port name	Tetra (yellow)	Wifi 1 (blue)	GNSS (black)	(red)
Band 1	✓			
Band 2		✓		
Band 3		✓		
Band 4			✓	
Band 5				✓

Electrical data LNA

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

Mechanical data

Weight	0.41 kg
Dimensions	82 mm x 83 mm x 208 mm (Height x Width x Depth)
Mounting breakthrough	Ø 30 mm
Remarks	Stick antenna max. length = 0.5m

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

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Environmental data	
Flammability rating	EN 45545-2 NFPA-130
Solar radiation	DIN 75220

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
1399.99.0207	85180564	SENCITY® Tram Antenna

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DOCUMENT PIM-P35270 / Date of publication: 17.07.2025 / uncontrolled copy