

SENCITY® Tram Antenna

1399.99.0201

Properties

- Supports 2G/3G/4G/5G cellular and Wifi 2.4/5 GHz, Wifi 6E bands and GNSS (Beidou, Galileo, GPS, Glonass)
- 3 elements in one housing and single-hole mounting
- Meets EN50155 and fire retardant according to EN 45545-2.
- Works without metal ground plane
- Offers a stick antenna socket and separate connector for each application.
- Works also on non-metallic surfaces



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Name				
Frequency	694 MHz ... 790 MHz	790 MHz ... 960 MHz	1710 MHz ... 2690 MHz	1710 MHz ... 2690 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.1	1.8	2	1.8
Gain	5 dBi	5 dBi	4 dBi	6 dBi
Isolation between Ports	25 dB	25 dB	25 dB	25 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	Band 8
Name			GNSS	Socket
Frequency	3400 MHz ... 3800 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz	
Impedance	50 Ω	50 Ω	50 Ω	
VSWR	2	2	1.8	
Gain	6 dBi	7 dBi		
Isolation between Ports	25 dB	20 dB		
Ambient Temperature	25 °C	25 °C		

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	Band 5	Band 6	Band 7	Band 8
Composite Power max	30 W	30 W		

Ports

	Port 1	Port 2	Port 3	Port 4
Port name	Cell 1 (white)	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	0.21 m	0.2 m	0.26 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	Cell 1 (white)	Wifi 1 (blue)	GNSS (black)	(red)
Band 1	✓			
Band 2	✓			
Band 3	✓			
Band 4		✓		
Band 5	✓			
Band 6		✓		
Band 7			✓	
Band 8				✓

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
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
1399.99.0201	85174992	SENCITY® Tram Antenna

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