

SENCITY® Tram MULTI Antenna

1399.99.0208

Properties

- Supports 2G/3G/4G/5G cellular, WiFi 2.4/5 GHz, WiFi 6E and GNSS (Beidou, Galileo, GPS, Glonass)
- 3 separate ports for 2x2 cellular 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	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	Band 7
Name	WiFi	WiFi	GNSS
Frequency	2400 MHz ... 2500 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz
Impedance			50 Ω
VSWR			1.8
Gain			
Isolation between Ports			
Ambient Temperature			
Composite Power max			

SENCITY® Tram MULTI Antenna

1399.99.0208

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 1x1 m or larger.
---------	--

Ports

	Port 1 to 2	Port 3
Port name	Cell 1-2 (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 2	Port 3
Port name	Cell 1-2 (white)	GNSS (black)
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4	✓	
Band 7		✓

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	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

SENCITY® Tram MULTI Antenna

1399.99.0208

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
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
1399.99.0208	85185404	SENCITY® Tram MULTI Antenna

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P35273 / Date of publication: 07.03.2025 / uncontrolled copy