

SENCITY® Tram MULTI Antenna

1399.19.0216

Properties

- Supports 2G/3G/4G/5G cellular, Wifi 2.4/5 GHz, Wifi 6E
- 4 separate ports for 4x4 cellular MIMO
- 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/Wi-Fi	Cellular	Cellular/Wi-Fi
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

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 name	Cell 1-4 (White)
Connector	SMA, plug (male)
Cable type	RADOX_RF_316_D
Cable length	0.3 m
Polarization	vertical

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Ports		
	Port 1 to 4	
DC grounded	Yes	
Connections		
	Port 1 to 4	
Port name	Cell 1-4 (White)	
Band 1		
Band 2		
Band 3		
Band 4		
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	
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
1399.19.0216	85185385	SENCITY® Tram MULTI Antenna

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