

SENCITY® Road Antenna

1399.99.0177

Properties

- Supports TETRA, Wifi 2.4/5 GHz, Wifi 6E and GNSS (Beidou, Galileo, GPS, Glonass)
- Offers a stick antenna socket and separate connector for each application
- Single hole mounting, easy cabling feed-through



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	

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.

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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, plug (male)	SMA, plug (male)	TNC, plug (male)	TNC, jack (female)
Cable type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable length	0.23 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	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 7043 (dark grey)
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
Flammability rating	ECE-R118
Solar radiation	DIN 75220
Standards	Automotive ISO 16750

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Environmental remarks
Environmental tests: ISO 16750:2010 Low corrosion designed acc. to MIL-F-14072D ECE-R10 E-Mark CE-Mark

Antenna accessories		
Item description	Item number	Product name
9091.99.0246	84112255	FM Radio Stick antenna 88-108 MHz

Ordering information		
Item description	Item number	Product name
1399.99.0177	85158715	SENCITY® Road Antenna

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