

SENCITY® Road Antenna

1399.99.0176

Properties

- Supports 2G/3G/4G/5G cellular and Wifi 2.4/5 GHz, Wifi 6E bands and GNSS (Beidou, Galileo, GPS, Glonass)
- Offers a separate connector for each application
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces
- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck



Electrical data

	Band 1	Band 2	Band 3	Band 4
Name	Cellular	Cellular	Cellular	WiFi
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			20 dB	20 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	Cellular	WiFi	GNSS
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			
Ambient Temperature	25 °C	25 °C	
Composite Power max	30 W	30 W	

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Ports			
	Port 1	Port 2	Port 3
Port name	Cell 1 (white)	Wifi 1 (blue)	GNSS (black)
Connector	SMA, plug (male)	SMA, jack (female)	TNC, plug (male)
Cable type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable length	0.21 m	0.2 m	0.26 m
Polarization	vertical	vertical	circular right
DC grounded	No	No	No

Connections			
	Port 1	Port 2	Port 3
Port name	Cell 1 (white)	Wifi 1 (blue)	GNSS (black)
Band 1	✓		
Band 2	✓		
Band 3	✓		
Band 4		✓	
Band 5	✓		
Band 6		✓	
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	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

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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

Ordering information		
Item description	Item number	Product name
1399.99.0176	85158714	SENCITY® Road Antenna

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