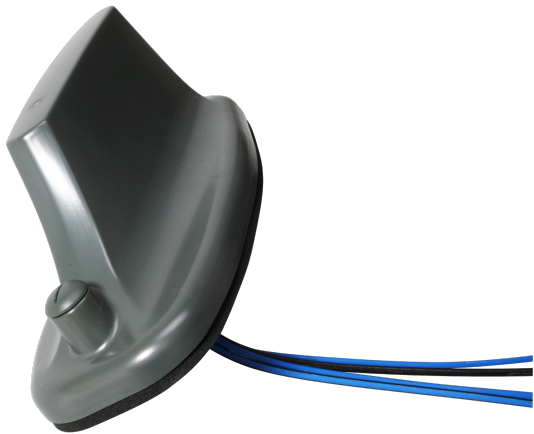# SENCITY® Road with Tetra, WiFi and L1 GNSS
1399.99.0127

Properties

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck

- Supports TETRA, WiFi 2.4, 5 GHz and IEEE 802.11p, 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				GPS/Glonass
Frequency	410 MHz ... 430 MHz	2400 MHz ... 2690 MHz	4900 MHz ... 5935 MHz	1574 MHz ... 1610 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2	1.8	1.8	2
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	80 W	40 W	30 W	

	Band 5
Name	Socket
Frequency	
Impedance	
VSWR	
Gain	
Isolation between Ports	
Ambient Temperature	
Composite Power max	

Electrical remarks	
Remarks	Indicated VSWR are valid for a metal ground plane of min. 500x500mm. Available stick antennas see section 'Related products'.

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Ports				
	Port 1	**Port 2**	**Port 3**	**Port 4**
Connector	SMA, plug (male) /jack (female)	SMA, jack (female)	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	0.3 m	0.3 m	0.3 m	0.3 m
Polarization	vertical	vertical	circular right	
DC grounded	Yes	No	No	No

Connections				
	Port 1	Port 2	Port 3	Port 4
Band 1	✓			
Band 2		✓		
Band 3		✓		
Band 4			✓	
Band 5				✓

Electrical data LNA	
LNA is connected to	Port 4
Input voltage	3 V ... 5 V
Current cunsumption	30 mA
Noise figure	2 dB
Total gain @90° elevation	30 dBic
Remarks	Values for LNA power consumption, noise figure and gain are given for a 5V operating voltage and may differ slightly for a lower voltage

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	ASA (acrylic ester-styrene-acrylonitrile)
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
Ingress protection (IP Rating)	Mated / IP68, IP69
Flammability rating	ECE-R118
Solar radiation	DIN 75220

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Environmental remarks
ISO 16750:2010 environmental tests
MIL-F-14072D low corrosion design
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
1399.99.0127	84145481	SENCITY® Road with Tetra, WiFi and L1 GNSS

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