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DATA SHEET

SENCITY® Road Antenna

1399.99.0126

Properties

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports cellular, WiFi 2.4, 5 GHz and IEEE 802.11p, GPS/Glonass.
- Offers separate connector for each application.
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces.



Electrical data				
	Band 1	**Band 2**	**Band 3**	**Band 4**
Name				
Frequency	698 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	80 W	50 W	40 W	40 W

	Band 5	**Band 6**
Name		GPS/Glonass
Frequency	4900 MHz ... 5935 MHz	1574 MHz ... 1610 MHz
Impedance	50 Ω	
VSWR	1.8	2
Gain	7 dBi	
Isolation between Ports		
Ambient Temperature	25 °C	
Composite Power max	30 W	

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Electrical remarks	
Remarks	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. A W-CDMA 2100 and LTE 2600 2x2 MIMO configuration is supported by using port 1 and 2.

Ports			
	Port 1	**Port 2**	**Port 3**
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	0.3 m	0.3 m	0.3 m
Polarization	vertical	vertical	circular right
DC grounded	Yes	No	No

Connections			
	Port 1	Port 2	Port 3
Band 1	✓		
Band 2	✓		
Band 3	✓		
Band 4		✓	
Band 5		✓	
Band 6			✓

Electrical data LNA	
LNA is connected to	Port 3
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	0.38 kg
Dimensions	82 mm x 83 mm x 208 mm (Height x Width x Depth)
Mounting breakthrough	Ø 30 mm

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

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Environmental data	
Flammability rating	ECE-R118
Solar radiation	DIN 75220

Environmental remarks
ISO 16750:2010 environmental tests MIL-F-14072D low corrosion design E-Mark CE-Mark

Ordering information		
Item description	Item number	Product name
1399.99.0126	84145275	SENCITY® Road Antenna

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