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DATA SHEET

SENCITY® Road MIMO Antenna

1399.99.0129

Properties

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports 2G/3G/4G cellular bands in 2x2 MIMO configurations and GPS/Glonass.
- Single hole mounting, easy cabling feed-through



Electrical data				
	Band 1	**Band 2**	**Band 3**	**Band 4**
Name				
Frequency	698 MHz ... 790 MHz	790 MHz ... 960 MHz	1710 MHz ... 2170 MHz	2400 MHz ... 2690 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.2	2	2	2
Gain	4 dBi	4 dBi	6 dBi	6 dBi
Isolation between Ports	12 dB	12 dB	15 dB	15 dB
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	80 W	50 W	40 W	40 W

	Band 5
Name	GPS/Glonass
Frequency	1574 MHz ... 1610 MHz
Impedance	50 Ω
VSWR	2
Gain	
Isolation between Ports	
Ambient Temperature	
Composite Power max	

Ports			
	Port 1	**Port 2**	**Port 3**
Connector	SMA, plug (male)	SMA, plug (male)	TNC, plug (male)
Cable type	ENVIROFLEX_316_D -AM	ENVIROFLEX_316_D -AM	ENVIROFLEX_316_D -AM
Cable length	0.17 m	0.23 m	0.25 m
Polarization	vertical	vertical	circular right

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Ports			
	Port 1	**Port 2**	**Port 3**
DC grounded	No	No	No

Connections			
	Port 1	Port 2	Port 3
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 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	0.5 kg
Dimensions	88 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
Environment (application)	Indoor/Outdoor
Ingress protection (IP Rating)	Mated / IP68, IP69
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

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Antenna accessories		
Item description	Item number	Product name
9091.99.0250	84124410	Metal ground plane foil 0.6x0.6m

Ordering information		
Item description	Item number	Product name
1399.99.0129	85004616	SENCITY® Road MIMO Antenna

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