

SENCITY® Road MIMO Antenna

1399.99.0180

Properties

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck.
- Supports 2G/3G/4G/5G MIMO 4x4 cellular, Wifi 2.4/5 GHz, Wifi 6E bands in 3x3 MIMO and GNSS (Beidou, Galileo, GPS, Glonass)
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces



Electrical data

	Band 1	Band 2	Band 3	Band 4
Frequency	694 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	1.8	1.8	1.8	1.8
Gain	4 dBi	4.5 dBi	5 dBi	5 dBi
Isolation between Ports	12 dB	12 dB	15 dB	18 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	GNSS
Frequency	3400 MHz ... 4200 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	1.7	1.6	1.8
Gain	6 dBi	6.5 dBi	
Isolation between Ports	15 dB	19 dB	
Ambient Temperature	25 °C	25 °C	
Composite Power max	30 W	25 W	

Ports

	Cell 1 (white)	Cell 2 (white)	GNSS (black)
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	0.15 m	0.19 m	0.26 m

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Ports			
	Cell 1 (white)	Cell 2 (white)	GNSS (black)
Polarization	vertical	vertical	circular right
DC grounded	No	No	No

Connections		
	Cell 1 (white)	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
Current consumption	20 mA
Noise figure	1.6 dB
Remarks	LNA input voltage range: 3..5V

Mechanical data	
Weight	0.5 kg
Dimensions	98 mm x 83 mm x 208 mm (Height x Width x Depth)
Mounting breakthrough	Ø 30 mm

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
Ingress protection (IP Rating)	Mated / IP68, IP69k
Flammability rating	ECE-R118
Solar radiation	DIN 75220
Standards	Automotive ISO 16750

Environmental remarks	
Low corrosion designed acc. to MIL-F-14072D	
ECE-R10	
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
1399.99.0180	85151777	SENCITY® Road MIMO Antenna

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