

**SEN CITY® Road MULTI Antenna**

1399.99.0400

**Properties**

- Rugged vehicle rooftop multi-band antenna for commercial vehicles like bus and truck
- Supports 2G/3G/4G/5G cellular, WiFi 2.4/5 GHz, WiFi 6E and GNSS (Beidou, Galileo, GPS, Glonass)
- 3 separate ports for 2x2 cellular MIMO plus GNSS
- Single hole mounting, easy cabling feed-through
- Meets ISO16750 automotive standard
- Fire retardant acc. to ECE-R118

**Electrical data**

	<b>Band 1</b>	<b>Band 2</b>	<b>Band 3</b>	<b>Band 4</b>
Name	Cellular	Cellular	Cellular	Cellular
Frequency	617 MHz ... 960 MHz	1350 MHz ... 2700 MHz	3300 MHz ... 4200 MHz	4900 MHz ... 7125 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2	2.1	2	2
Gain	2 dBi	4 dBi	4 dBi	5 dBi
Isolation between Ports	9 dB	18 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

	<b>Band 5</b>	<b>Band 6</b>	<b>Band 7</b>
Name	WiFi	WiFi	GNSS
Frequency	2400 MHz ... 2500 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz
Impedance			50 Ω
VSWR			1.8
Gain			
Isolation between Ports			
Ambient Temperature			
Composite Power max			

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**Electrical remarks**

Remarks	Ground plane: Indicated VSWR values are valid for a metallic ground plane of 0.5 x 0.5m or larger and Isolation is provided as typical values. Indicated VSWR values are mostly valid for installations on non-metallic surfaces also (no specific ground plane requirements). Indicated gain values will be achieved on a metallic ground plane of 1x1 m or larger.
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**Ports**

	<b>Port 1 to 2</b>	<b>Port 3</b>
Port name	Cell 1-2 (white)	GNSS (black)
Connector	SMA, plug (male)	TNC, plug (male)
Cable type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable length	0.3 m	0.3 m
Polarization	vertical	circular right
DC grounded	Yes	No

**Connections**

	Port 1 to 2	Port 3
Port name	Cell 1-2 (white)	GNSS (black)
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4	✓	
Band 7		✓

**Electrical data LNA**

LNA is connected to	Port 5
Input voltage	3 V ... 5 V
Current consumption	20 mA
Noise figure	1.6 dB
Total gain @90° elevation	30 dBic

**Mechanical data**

Weight	1.1 kg
Dimensions	60 mm x 210 mm (Height x Diameter)
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
Environment (application)	Outdoor
Ingress protection (IP Rating)	IP68, IP69k

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**Environmental data**

Flammability rating	ECE-R118
Solar radiation	DIN 75220

**Environmental remarks**

Environmental tests: ISO 16750:2012/2010  
Low corrosion designed acc. to MIL-F-14072D.  
ECE-R10  
E-Mark

**Ordering information**

Item description	Item number	Product name
1399.99.0400	85192448	SENCITY® Road MULTI Antenna

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