

SENCITY® Road MULTI Antenna

1399.99.0435

Properties

- Rugged vehicle rooftop multi-band antenna for commercial vehicles like bus and truck
- Supports TETRA, LTE450, 2G/3G/4G/5G cellular, Wifi 2.4/5 GHz, Wifi 6E and Dual Band GNSS (Beidou, Galileo, GPS, Glonass)
- 7 separate ports for 2x2 TETRA/cellular MIMO and 4x4 Wifi MIMO plus GNSS
- Meets ISO16750 automotive standard
- Single hole mounting, easy cabling feed-through
- Fire retardant acc. to ECE-R118



Electrical data				
	TETRA/LTE450	Cellular	Cellular	Cellular
Name				
Frequency	380 MHz ... 470 MHz	694 MHz ... 960 MHz	1350 MHz ... 2700 MHz	3300 MHz ... 4200 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.5	2.1	2.1	2.1
Gain	3 dBi	2 dBi	4 dBi	4 dBi
Isolation between Ports	3 dB	8 dB	15 dB	20 dB
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	40 W	40 W	40 W	40 W

	Cellular	WiFi	WiFi	Band 8
Name				GNSS
Frequency	4900 MHz ... 7125 MHz	2400 MHz ... 2500 MHz	4900 MHz ... 7125 MHz	1164 MHz ... 1279 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.1	2.1	2.1	1.5
Gain	5 dBi	6 dBi	6 dBi	
Isolation between Ports	20 dB	20 dB	20 dB	
Ambient Temperature	25 °C	25 °C	25 °C	

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	Cellular	WiFi	WiFi	Band 8
Composite Power max	40 W	30 W	30 W	

	Band 9
Name	GNSS
Frequency	1559 MHz ... 1610 MHz
Impedance	50 Ω
VSWR	1.8
Gain	
Isolation between Ports	
Ambient Temperature	
Composite Power max	

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 1 x 1 m or larger.
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Ports			
	Port 1 to 2	Port 3 to 6	Port 7
Port name	Tetra 1-2 (yellow)	WiFi 1-4 (blue)	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	0.3 m	0.3 m	0.3 m
Polarization	vertical	vertical	circular right
DC grounded	Yes	Yes	No

Connections			
	Port 1 to 2	Port 3 to 6	Port 7
Port name	Tetra 1-2 (yellow)	WiFi 1-4 (blue)	GNSS (black)
Band 1	✓		
Band 2	✓		
Band 3	✓		
Band 4	✓		
Band 5	✓		
Band 6		✓	
Band 7		✓	
Band 8			✓
Band 9			✓

Electrical data LNA	
LNA is connected to	Port 5
Input voltage	3 V ... 5 V
Current consumption	45 mA
Noise figure	2 dB

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Electrical data LNA	
Total gain @90° elevation	42 dBic
Remarks	LNA input voltage range: 3..5V Total gain @90° elevation: 42 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)	Mated / IP68, IP69k
Flammability rating	ECE-R118
Solar radiation	DIN 75220
Standards	Automotive ISO 16750

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

Ordering information		
Item description	Item number	Product name
1399.99.0435	85192512	SENCITY® Road MULTI Antenna

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DOCUMENT PIM-P35262 / Date of publication: 11.08.2025 / uncontrolled copy