

SENCITY® Road LowProfile

1399.99.0194

Properties

- Rugged low profile vehicle rooftop antenna for commercial vehicles like bus and truck
- Supports 2G/3G/4G/5G cellular and Wifi 2.4/5 GHz, Wifi 6E bands and GNSS.
- 3 separate ports for cellular, Wifi and GNSS
- Meets ISO16750 automotive standard
- Fire retardant acc. to ECE-R118
- Single hole mounting, easy cabling feed-through

**Communication services**

Note

Electrical bands

	Band 1	Band 2	Band 3	Band 4
Name	Cellular	Cellular	Cellular	Wi-Fi
Frequency	694 MHz ... 960 MHz	1710 MHz ... 2690 MHz	3400 MHz ... 3800 MHz	2400 MHz ... 2500 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.5	2	2	2
Gain	2 dBi	4 dBi	5 dBi	5 dBi
Isolation between Ports	20 dB	15 dB	20 dB	15 dB
Ambient Temperature		25 °C	25 °C	25 °C
Composite Power max	30 W	30 W	25 W	30 W

	Band 5	Band 6
Name	Wi-Fi	GNSS
Frequency	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz
Impedance	50 Ω	50 Ω
VSWR	2	1.8
Gain	6 dBi	
Isolation between Ports	20 dB	
Ambient Temperature	25 °C	

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	Band 5	Band 6
Composite Power max	20 W	

Ports			
	Port 1	Port 2	Port 3
Port name	Cell 1 (white)	Wi-Fi 1 (blue)	GNSS (black)
Connector	FAKRA, jack (female)	FAKRA, jack (female)	FAKRA, jack (female)
Cable media 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 number	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
Current consumption	20 mA
Remarks	LNA input voltage range: 3..5V Total gain @90° elevation: 30 dBiC

Mechanical data	
Weight	0.3 kg
Dimensions	33.2 mm x 145 mm (Height x Diameter)
Remarks	Mounting breakthrough Ø29mm

Interface and material data	
Radome material	PC (Polycarbonate)
Radome colour	RAL 7043 (dark grey)

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP68, IP69
Flammability rating	ECE-R118
Solar radiation	DIN 75220

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Environmental remarks

ISO 16750:2010 environmental tests

MIL-F-14072D low corrosion design

E-Mark

CE-Mark

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