

SENCITY® Road MULTI Antenna

1399.99.0418

Properties

- Supports Wifi 2.4/5 GHz, Wifi 6E and GNSS (Beidou, Galileo, GPS, Glonass)
- 9 separate ports 8x8 Wifi MIMO plus GNSS
- Meets ISO16750 automotive standard
- Fire retardant acc. to ECE-R118
- Single hole mounting, easy cabling feed-through

**Electrical data**

	Band 1	Band 2	Band 3
Name	WiFi	WiFi	GNSS
Frequency	2400 MHz ... 2500 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz
Impedance	50 Ω	50 Ω	50 Ω
VSWR	2	2	1.8
Gain	6 dBi	6 dBi	
Isolation between Ports	24 dB	24 dB	
Ambient Temperature	25 °C	25 °C	
Composite Power max	30 W	30 W	

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 8	Port 9
Port name	WiFi 1-8 (blue)	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

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Ports		
	Port 1 to 8	Port 9
DC grounded	Yes	No

Connections		
	Port 1 to 8	Port 9
Port name	WiFi 1-8 (blue)	GNSS (black)
Band 1	✓	
Band 2	✓	
Band 3		✓

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	
Ingress protection (IP Rating)	Mated / IP68, IP69k	
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
1399.99.0418	85192489	SENCITY® Road MULTI Antenna

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