

SENCITY® Road

1399.99.0175

Properties

- Supports 2G/3G/4G/5G cellular and Wifi 2.4/5 GHz, Wifi 6E bands and GNSS (Beidou, Galileo, GPS, Glonass)
- Offers a stick antenna socket and separate connector for each application
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces
- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck

**Communication services**

Note

Electrical bands

	Band 1	Band 2	Band 3	Band 4
Name	Cellular	Cellular	Cellular	Wi-Fi
Frequency	694 MHz ... 790 MHz	790 MHz ... 960 MHz	1710 MHz ... 2690 MHz	1710 MHz ... 2690 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2.1	1.8	2	1.8
Gain	5 dBi	5 dBi	4 dBi	6 dBi
Isolation between Ports	25 dB	25 dB	25 dB	25 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	Band 7	Band 8
Name	Cellular	Wi-Fi	GNSS	Socket
Frequency	3400 MHz ... 3800 MHz	4900 MHz ... 7125 MHz	1559 MHz ... 1610 MHz	
Impedance	50 Ω	50 Ω	50 Ω	
VSWR	2	2	1.8	
Gain	6 dBi	7 dBi		
Isolation between Ports	25 dB	25 dB		

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	Band 5	Band 6	Band 7	Band 8
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. Indicated VSWR values are mostly valid for installations on non metallic surfaces also (no specific ground plane requirements), apart from VSWR 2.5 below 840 MHz and VSWR 3 below 750 MHz
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Ports

	Port 1	Port 2	Port 3	Port 4
Port name	Cell 1 (white)	Wifi 1 (blue)	GNSS (black)	(red)
Connector	SMA, plug (male)	SMA, jack (female)	TNC, plug (male)	TNC, jack (female)
Cable media type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D -AM	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D -AM
Cable length	0.21 m	0.2 m	0.26 m	0.3 m
Polarization	vertical	vertical	circular right	
DC grounded	No	No	No	No

Connections

Port number	Port 1	Port 2	Port 3	Port 4
Band 1	✓			
Band 2	✓			
Band 3	✓			
Band 4		✓		
Band 5	✓			
Band 6		✓		
Band 7			✓	
Band 8				✓

Electrical data LNA

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

Mechanical data

Weight	0.41 kg
Dimensions	82 mm x 83 mm x 208 mm (Height x Width x Depth)
Remarks	Stick antenna max. length 0.5m

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Interface and material data

Radome material	PC (Polycarbonate)
Radome colour	RAL 7043 (dark grey)
Back plate/base plate material	Aluminium

Environmental data

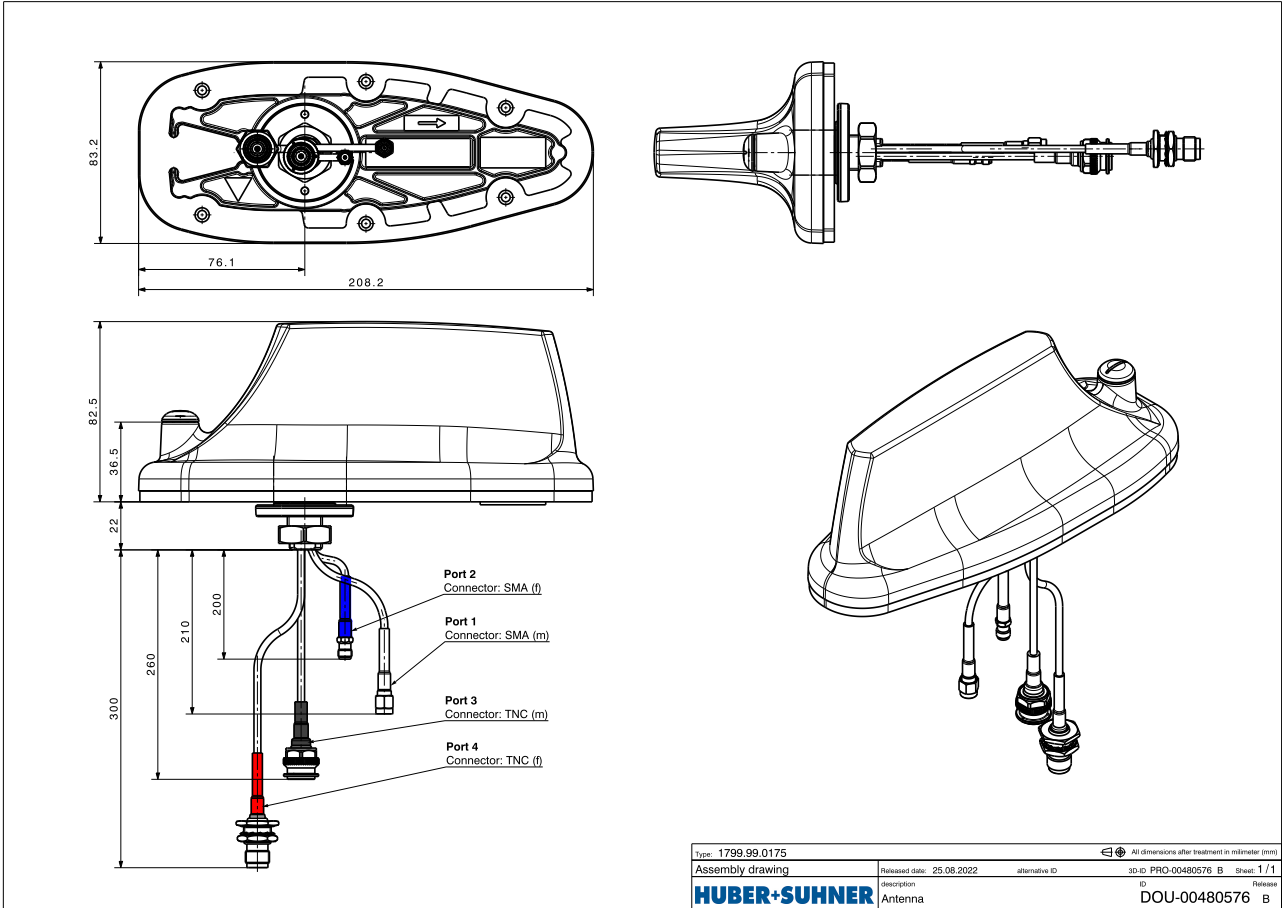
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Environment (application)	Outdoor
Ingress protection (IP Rating)	Mated / IP68, IP69k
Flammability rating	ECE-R118
Solar radiation	DIN 75220

Environmental remarks

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

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Outline drawing



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