

SENCITY® Road MULTI Antenna

1399.99.0408

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)
- 5 separate ports for 4x4 cellular MIMO plus GNSS
- Single hole mounting, easy cabling feed-through
- Meets ISO16750 automotive standard
- Fire retardant acc. to ECE-R118



| Electrical data         |                     |                       |                       |                       |
|-------------------------|---------------------|-----------------------|-----------------------|-----------------------|
|                         | Band 1              | Band 2                | Band 3                | Band 4                |
| 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                  |

|                         | Band 5                | Band 6                | Band 7                |
|-------------------------|-----------------------|-----------------------|-----------------------|
| 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 1 x 1 m or larger. |

| Ports        |                     |                     |
|--------------|---------------------|---------------------|
|              | Port 1 to 4         | Port 5              |
| Port name    | Cell 1-4 (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 4      | Port 5       |
| Port name   | Cell 1-4 (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) | Mated / IP68, IP69k |

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**Environmental data**

|                     |                      |
|---------------------|----------------------|
| 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  
ECE-R10  
E-Mark  
CE-Mark

**Ordering information**

| Item description | Item number | Product name                |
|------------------|-------------|-----------------------------|
| 1399.99.0408     | 85192474    | SENCITY® Road MULTI Antenna |

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