

## SENCITY® Road MULTI Antenna

1399.19.0428

### 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.
- 2 separate ports for 2x2 TETRA/cellular MIMO
- Meets ISO16750 automotive standard
- Single hole mounting, easy cabling feed-through



### Electrical data

|                         | TETRA/LTE450        | Cellular            | Cellular              | Cellular              |
|-------------------------|---------------------|---------------------|-----------------------|-----------------------|
| Frequency               | 380 MHz ... 470 MHz | 617 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                  |
|-------------------------|-----------------------|-----------------------|-----------------------|
| Frequency               | 4900 MHz ... 7125 MHz | 2400 MHz ... 2500 MHz | 4900 MHz ... 7125 MHz |
| Impedance               | 50 Ω                  |                       |                       |
| VSWR                    | 2.1                   |                       |                       |
| Gain                    | 5 dBi                 |                       |                       |
| Isolation between Ports | 20 dB                 |                       |                       |
| Ambient Temperature     | 25 °C                 |                       |                       |
| Composite Power max     | 40 W                  |                       |                       |

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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        |                     |
|--------------|---------------------|
|              | Tetra 1-2 (yellow)  |
| Connector    | SMA, plug (male)    |
| Cable type   | ENVIROFLEX_316_D-AM |
| Cable length | 0.3 m               |
| Polarization | vertical            |
| DC grounded  | Yes                 |

| Connections |                    |
|-------------|--------------------|
|             | Tetra 1-2 (yellow) |
| Band 1      | ✓                  |
| Band 2      | ✓                  |
| Band 3      | ✓                  |
| Band 4      | ✓                  |
| Band 5      | ✓                  |

| 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            |
| Standards                      | Automotive ISO 16750 |

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

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| Ordering information |             |                             |
|----------------------|-------------|-----------------------------|
| Item description     | Item number | Product name                |
| 1399.19.0428         | 85185149    | SENCITY® Road MULTI Antenna |

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