

# SENCITY® Road MIMO Antenna

1399.99.0128

## Properties

- Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck
- Supports WiFi 2.4, 5 GHz and IEEE 802.11p in 3x3 MIMO configurations.
- Single hole mounting, easy cabling feed-through
- Works also on non-metallic surfaces.



## Electrical data

|                         | Band 1                | Band 2                |
|-------------------------|-----------------------|-----------------------|
| Frequency               | 2400 MHz ... 2690 MHz | 4900 MHz ... 5935 MHz |
| Impedance               | 50 Ω                  | 50 Ω                  |
| VSWR                    | 1.8                   | 1.8                   |
| Gain                    | 6 dBi                 | 7 dBi                 |
| Isolation between Ports | 14 dB                 | 22 dB                 |
| Ambient Temperature     | 25 °C                 | 25 °C                 |
| Composite Power max     | 40 W                  | 30 W                  |

## Ports

|              | Port 1               | Port 2               | Port 3               |
|--------------|----------------------|----------------------|----------------------|
| Connector    | SMA, jack (female)   | SMA, jack (female)   | SMA, jack (female)   |
| Cable 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             | vertical             |
| DC grounded  | Yes                  | No                   | Yes                  |

## Connections

|        | Port 1 | Port 2 | Port 3 |
|--------|--------|--------|--------|
| Band 1 | ✓      | ✓      | ✓      |
| Band 2 | ✓      | ✓      | ✓      |

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| Mechanical data |                                                 |
|-----------------|-------------------------------------------------|
| Weight          | 0.41 kg                                         |
| Dimensions      | 82 mm x 83 mm x 208 mm (Height x Width x Depth) |

| Material data                  |                                           |
|--------------------------------|-------------------------------------------|
| Radome material                | ASA (acrylic ester-styrene-acrylonitrile) |
| 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)      | Indoor/Outdoor     |
| Ingress protection (IP Rating) | Mated / IP68, IP69 |
| Flammability rating            | ECE-R118           |
| Solar radiation                | DIN 75220          |

| Environmental remarks              |  |
|------------------------------------|--|
| ISO 16750:2010 environmental tests |  |
| MIL-F-14072D low corrosion design  |  |
| E-Mark                             |  |
| CE-Mark                            |  |

| Ordering information |             |                            |
|----------------------|-------------|----------------------------|
| Item description     | Item number | Product name               |
| 1399.99.0128         | 85004617    | SENCITY® Road MIMO Antenna |

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