

SENCITY® Road MULTI Antenna

1399.19.0410

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
- 6 separate ports for 4x4 cellular MIMO and 2x2 Wifi MIMO
- Meets ISO16750 automotive standard
- Single hole mounting, easy cabling feed-through
- Fire retardant acc. to ECE-R118



| Electrical data | | | | |
|-------------------------|---------------------|-----------------------|-----------------------|-----------------------|
| | Band 1 | Band 2 | Band 3 | Band 4 |
| Name | Cellular 1-4 | Cellular 1-4 | Cellular 1-4 | Cellular 1-4 |
| 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 |
|-------------------------|-----------------------|-----------------------|
| Name | WiFi 1-2 | WiFi 1-2 |
| Frequency | 2400 MHz ... 2500 MHz | 4900 MHz ... 7125 MHz |
| Impedance | 50 Ω | 50 Ω |
| VSWR | 2 | 2 |
| 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 |

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| System data | |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | 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 to 6 |
| Port name | Cell 1-4 (White) | WiFi 1-2 (blue) |
| Connector | SMA, plug (male) | SMA, plug (male) |
| Cable type | ENVIROFLEX_316_D-AM | ENVIROFLEX_316_D-AM |
| Cable length | 0.3 m | 0.3 m |
| Polarization | vertical | vertical |
| DC grounded | Yes | Yes |

| Connections | | |
|-------------|------------------|-----------------|
| | Port 1 to 4 | Port 5 to 6 |
| Port name | Cell 1-4 (White) | WiFi 1-2 (blue) |
| Band 1 | ✓ | |
| Band 2 | ✓ | |
| Band 3 | ✓ | |
| Band 4 | ✓ | |
| Band 5 | | ✓ |
| Band 6 | | ✓ |

| 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 |
| Flammability rating | ECE-R118 |
| Solar radiation | DIN 75220 |

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

| Ordering information | | |
|----------------------|-------------|-----------------------------|
| Item description | Item number | Product name |
| 1399.19.0410 | 85192475 | SENCITY® Road MULTI Antenna |

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