

**SENCITY® OMNI-M**

1399.17.0322

**Properties**

- 7-Port antenna for Cellular and Wi-Fi bands
- Supports 4x4 Cellular MIMO for 3G, 4G and 5G
- Supports 3x3 Wi-Fi MIMO in all Wi-Fi 6E bands
- 4 radiators for Cellular bands and 3 radiators for Wi-Fi/WiMAX bands
- Rugged design, meets EN 60068 Industrial Standards
- Single hole mounting on cabinet or roof



| 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     | 80 W                | 80 W                  | 80 W                  | 80 W                  |

|                         | Band 5                | Band 6                |
|-------------------------|-----------------------|-----------------------|
| Name                    | Wi-Fi 1-3             | Wi-Fi 1-3             |
| 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     | 80 W                  | 80 W                  |

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**Electrical remarks**

|         |                                                                                                                                                                                                                                                                                                                              |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks | Ground plane: Indicated VSWR values are also valid for installations on non-metallic surfaces (no specific ground plane requirements).<br>Indicated gain values will be achieved on a metallic ground plane of 500 x 500 mm or larger.<br>Please refer to the outline drawing to read the cable pigtail length of each port. |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Ports**

|              | Port 1 to 4      | Port 5 to 7      |
|--------------|------------------|------------------|
| Port name    | Cellular 1-4     | Wi-Fi 1-3        |
| Connector    | N, jack (female) | N, jack (female) |
| Cable type   | Enviroflex_316_D | Enviroflex_316_D |
| Polarization | vertical         | vertical         |
| DC grounded  | Yes              | Yes              |

**Connections**

|           | Port 1 to 4  | Port 5 to 7 |
|-----------|--------------|-------------|
| Port name | Cellular 1-4 | Wi-Fi 1-3   |
| Band 1    | ✓            |             |
| Band 2    | ✓            |             |
| Band 3    | ✓            |             |
| Band 4    | ✓            |             |
| Band 5    |              | ✓           |
| Band 6    |              | ✓           |

**Mechanical data**

|            |                                                                                                                                                                                                                                                            |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight     | 1.2 kg                                                                                                                                                                                                                                                     |
| Dimensions | 62.5 mm x 211.5 mm (Height x Diameter)                                                                                                                                                                                                                     |
| Remarks    | Corrosion: Low corrosion design according to MIL-F-14072(E), 96 hours Salt Spray test.<br>Mounting: Shall be installed in longitudinal position to the wind/driving direction.<br>Suitable for installation on vehicles with a maximum speed of 160 km/hr. |

**Material data**

|                                |                       |
|--------------------------------|-----------------------|
| Radome material                | PC (Polycarbonate)    |
| Radome colour                  | RAL 7044 (light grey) |
| Back plate/base plate material | Aluminum              |

**Environmental data**

|                                |                  |
|--------------------------------|------------------|
| Operation temperature          | -40 °C ... 85 °C |
| Storage temperature            | -55 °C ... 85 °C |
| Transport temperature          | -40 °C ... 85 °C |
| Environment (application)      | Outdoor          |
| Ingress protection (IP Rating) | Mated / IP69     |
| Solar radiation                | UL 746C, F1      |

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| Environmental remarks                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental tests: EN 60068<br>EN 60068-2-1 Cold temperature test Ad, -55°C, 16h<br>EN 60068-2-2 Dry heat test Bd +85°C, 16h<br>EN 60068-2-30 Damp heat cyclic test Db, +25/55°C, 2 cycles<br>EN 60068-2-11 Salt Mist test Ka, 96h<br>EN 61373 § 9 Mechanical Vibration test, Cat. 2<br>EN 61373 § 10 Mechanical shock test, Cat. 2<br>EN 60529 Ingress protection test, IP69 |

| Additional Information                                                                                       |
|--------------------------------------------------------------------------------------------------------------|
| This Antenna is compliant with the Radio Equipment Directive 2014/53/EU<br>ETSI EN 303 413 V.1.1.1 (2017-06) |

| Ordering information |             |                 |
|----------------------|-------------|-----------------|
| Item description     | Item number | Product name    |
| 1399.17.0322         | 85185321    | SENCITY® OMNI-M |

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