

**SENCITY® Tram MULTI Antenna**

1399.19.0242

**Properties**

- Supports TETRA, LTE450, 2G/3G/4G/5G cellular, Wifi 2.4/5 GHz, Wifi 6E
- 4 separate ports for 1x TETRA/cellular and 3x3 Wifi MIMO
- Meets EN50155 railway standard
- Fire retardant acc. to EN45545-2 and NFPA-130
- Single hole mounting, easy cabling feed-through
- Rugged vehicle rooftop multi-band antenna for Light Rail



| Electrical data         |                     |                     |                       |                       |
|-------------------------|---------------------|---------------------|-----------------------|-----------------------|
|                         | Band 1              | Band 2              | Band 3                | Band 4                |
| Name                    | 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 |                     |                     |                       |                       |
| 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                    | Cellular              | WiFi                  | WiFi                  |
| Frequency               | 4900 MHz ... 7125 MHz | 2400 MHz ... 2500 MHz | 4900 MHz ... 7125 MHz |
| Impedance               | 50 Ω                  | 50 Ω                  | 50 Ω                  |
| VSWR                    | 2.1                   | 2.1                   | 2.1                   |
| Gain                    | 5 dBi                 | 6 dBi                 | 6 dBi                 |
| Isolation between Ports |                       | 20 dB                 | 20 dB                 |
| Ambient Temperature     | 25 °C                 | 25 °C                 | 25 °C                 |
| Composite Power max     | 40 W                  | 30 W                  | 30 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        |                  |                  |
|--------------|------------------|------------------|
|              | Port 1           | Port 2 to 4      |
| Port name    | Tetra 1 (yellow) | WiFi 1-3 (blue)  |
| Connector    | SMA, plug (male) | SMA, plug (male) |
| Cable type   | RADOX_RF_316_D   | RADOX_RF_316_D   |
| Cable length | 0.3 m            | 0.3 m            |
| Polarization | vertical         | vertical         |
| DC grounded  | Yes              | Yes              |

| Connections |                  |                 |
|-------------|------------------|-----------------|
|             | Port 1           | Port 2 to 4     |
| Port name   | Tetra 1 (yellow) | WiFi 1-3 (blue) |
| Band 1      | ✓                |                 |
| Band 2      | ✓                |                 |
| Band 3      | ✓                |                 |
| Band 4      | ✓                |                 |
| Band 5      | ✓                |                 |
| Band 6      |                  | ✓               |
| Band 7      |                  | ✓               |

| 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 9017 (black)   |
| 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            | EN 45545-2<br>NFPA-130 |
| Solar radiation                | DIN 75220              |

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| Environmental remarks                       |
|---------------------------------------------|
| Environmental tests: EN50155:2018-05        |
| High-voltage protection: EN50124-1:2017-03  |
| Low corrosion designed acc. to MIL-F-14072D |

| Ordering information |             |                             |
|----------------------|-------------|-----------------------------|
| Item description     | Item number | Product name                |
| 1399.19.0242         | 85185518    | SENCITY® Tram MULTI Antenna |

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