

**SENCITY® Urban 200**

1399.17.0248

**Properties**

- Directional antenna for Cellular bands between 1695 MHz and 4200 MHz
- With NEX10 connectors
- Half power beamwidth of 60° (vertical) and 70° (Horizontal)
- Wall bracket is included. Pole bracket is sold as separate item (9091.99.0274)
- N female connector



| Electrical data         |                       |                       |                       |                       |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                         | Band 1                | Band 2                | Band 3                | Band 4                |
| Name                    | Cellular              | Cellular              | Cellular              | Cellular              |
| Frequency               | 1695 MHz ... 1920 MHz | 1920 MHz ... 2180 MHz | 2300 MHz ... 2690 MHz | 3300 MHz ... 3800 MHz |
| Impedance               | 50 Ω                  | 50 Ω                  | 50 Ω                  | 50 Ω                  |
| VSWR                    | 2                     | 2                     | 2                     | 2                     |
| Gain                    | 7.4 dBi               | 7.3 dBi               | 7.4 dBi               | 7.2 dBi               |
| HPBW vertical           | 80 °                  | 85 °                  | 70 °                  | 65 °                  |
| HPBW horizontal         | 75 °                  | 75 °                  | 70 °                  | 65 °                  |
| Isolation between Ports | 18 dB                 | 20 dB                 | 20 dB                 | 17 dB                 |
| Front to back ratio     | 16 dB                 | 15 dB                 | 14 dB                 | 20 dB                 |
| Co/Crosspolar Ratio     | 19 dB                 | 15 dB                 | 15 dB                 | 15 dB                 |
| Ambient Temperature     | 25 °C                 | 25 °C                 | 25 °C                 | 25 °C                 |
| Composite Power max     | 125 W                 | 125 W                 | 110 W                 | 95 W                  |

|                         | Band 5                |
|-------------------------|-----------------------|
| Name                    | Cellular              |
| Frequency               | 3800 MHz ... 4200 MHz |
| Impedance               | 50 Ω                  |
| VSWR                    | 2                     |
| Gain                    | 8.4 dBi               |
| HPBW vertical           | 50 °                  |
| HPBW horizontal         | 65 °                  |
| Isolation between Ports | 19 dB                 |
| Front to back ratio     | 20 dB                 |
| Co/Crosspolar Ratio     | 17 dB                 |
| Ambient Temperature     | 25 °C                 |

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|                     |               |
|---------------------|---------------|
|                     | <b>Band 5</b> |
| Composite Power max | 90 W          |

**Electrical remarks**

|           |                                     |
|-----------|-------------------------------------|
| IMD level | -150 dBc at carrier power 2x 43 dBm |
|-----------|-------------------------------------|

**Ports**

|              | <b>Cellular</b>  | <b>Cellular</b>  |
|--------------|------------------|------------------|
| Port name    | Port 1           | Port 2           |
| Connector    | N, jack (female) | N, jack (female) |
| Polarization | +45C° slant      | -45C° slant      |
| DC grounded  | No               | No               |

**Connections**

|           | <b>Cellular</b> | <b>Cellular</b> |
|-----------|-----------------|-----------------|
| Port name | Port 1          | Port 2          |
| Band 1    | ✓               | ✓               |
| Band 2    | ✓               | ✓               |
| Band 3    | ✓               | ✓               |
| Band 4    | ✓               | ✓               |
| Band 5    | ✓               | ✓               |

**Mechanical data**

|            |                                                        |
|------------|--------------------------------------------------------|
| Dimensions | 184.8 mm x 164.6 mm x 84.2 mm (Height x Width x Depth) |
|------------|--------------------------------------------------------|

**Material data**

|                 |                       |
|-----------------|-----------------------|
| Radome material | PC (Polycarbonate)    |
| Radome colour   | RAL 7035 (light-grey) |

**Environmental data**

|                                |                  |
|--------------------------------|------------------|
| Operation temperature          | -40 °C ... 70 °C |
| Storage temperature            | -40 °C ... 70 °C |
| Transport temperature          | -40 °C ... 70 °C |
| Environment (application)      | Indoor/Outdoor   |
| Ingress protection (IP Rating) | IP66             |
| Flammability rating            | UL 94-V0         |

**Antenna accessories**

| Item description | Item number | Product name                                |
|------------------|-------------|---------------------------------------------|
| 9091.99.0274     | 85113372    | SENCITY® Antenna down- and sidetilt Bracket |

**Ordering information**

| Item description | Item number | Product name       |
|------------------|-------------|--------------------|
| 1399.17.0248     | 85110146    | SENCITY® Urban 200 |

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