

# Huber+Suhner 3G-4G Sencity Road Antenna, 2x2 MIMO

SKU: ANT-HS-00001

MPN: 1399.99.0119

## Description

The Huber+Suhner 3G-4G Sencity Road Antenna, featuring 2x2 MIMO technology, is designed for high-performance communication in challenging environments. This fin/stud/combo antenna, part number 1399.99.0119, is built with durable aluminium and ASA plastic, ensuring robustness and longevity. Certified to an IP69 ingress protection rating, it withstands extreme temperatures from -40°C to 85°C, making it ideal for demanding outdoor applications such as roadside installations and transportation systems.

With two input ports, the antenna supports 2 RF connections, providing reliable connectivity across a wide frequency range of 698 MHz to 2690 MHz. It delivers impressive RF performance with peak gains of up to 6.0 dBi and maintains inter-port isolation above 12 dB, ensuring minimal interference and optimal signal clarity. The antenna's 50 Ω impedance supports power inputs up to 80 W, making it suitable for high-capacity data transmission.

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## RF Specification

### Port 1



### Huber+Suhner

The global Swiss company HUBER+SUHNER develops and manufactures components and system solutions for electrical and optical transportation of data and energy. The company serves customers in the Communication, Transportation and Industrial markets with cables, connectors, cable systems, antennas and other passive components relying on its expertise in radio frequency, fiber optics and low frequency ...

Start Frequency: 698 MHz      Polarisation: Vertical (V)

Stop Frequency: 2690 MHz      Input Impedance: 50

Max. Input Power: 80 W

#### RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|--------|
| 1     | SMA Male     | Straight   | RG-316       | 170 mm |

#### Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    | Inter-Port Iso. |
|-------------|------------|-----------|---------|-----------------|
| 698 MHz     | 790 MHz    | 4 dBi     | < 2.2:1 | > 12 dB         |
| 790 MHz     | 960 MHz    | 4 dBi     | < 2:1   | > 12 dB         |
| 1710 MHz    | 2170 MHz   | 6 dBi     | < 2:1   | > 15 dB         |
| 2400 MHz    | 2690 MHz   | 6 dBi     | < 2:1   | > 15 dB         |

## Port 2

Start Frequency: 698 MHz      Polarisation: Vertical (V)

Stop Frequency: 2690 MHz      Input Impedance: 50

Max. Input Power: 50 W

#### RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|--------|
| 1     | SMA Male     | Straight   | RG-316       | 230 mm |

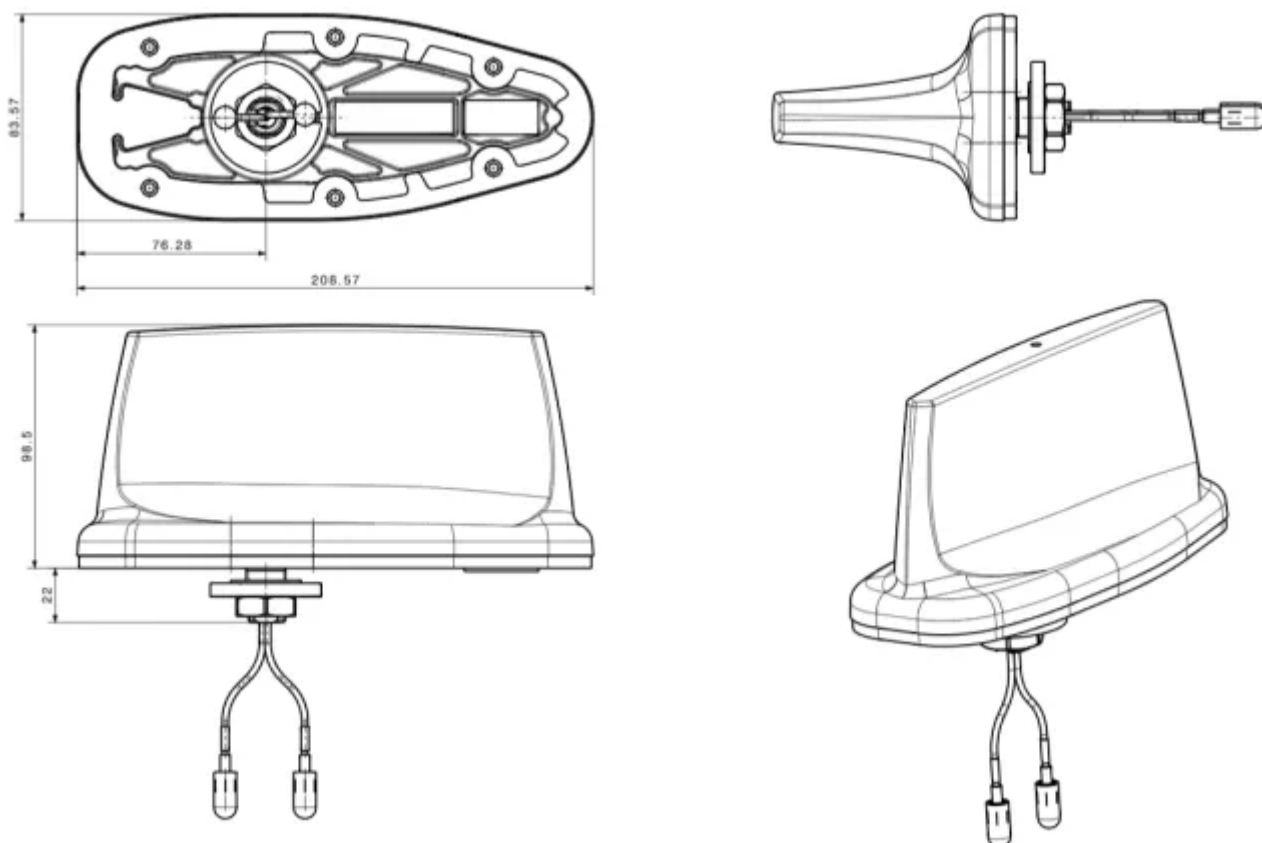
#### Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    | Inter-Port Iso. |
|-------------|------------|-----------|---------|-----------------|
| 698 MHz     | 790 MHz    | 4 dBi     | < 2.2:1 | > 12 dB         |
| 790 MHz     | 960 MHz    | 4 dBi     | < 2:1   | > 12 dB         |
| 1710 MHz    | 2170 MHz   | 6 dBi     | < 2:1   | > 15 dB         |
| 2400 MHz    | 2690 MHz   | 6 dBi     | < 2:1   | > 15 dB         |

# Physical Specification

|                             |                    |                            |                         |
|-----------------------------|--------------------|----------------------------|-------------------------|
| Subtype:                    | Fin / Stud / Combo | Dimensions:                | 88 x 83 x 208           |
| Input Ports:                | 2                  | Ingress Protection:        | IP69                    |
| MIMO:                       | 2x2 MIMO           | Materials:                 | Aluminium, ASA Plastic  |
| Min. Operating Temperature: | -40 °C             | Mounting:                  | Stud / Bulkhead / Panel |
| Max. Operating Temperature: | 85 °C              | Weight:                    | 0.4 kg                  |
|                             |                    | Compliance/Certifications: | CE                      |

## Drawing



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