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

SKU
ANT-HS-00002
MPN
1399.99.0129

Description

The Huber+Suhner Sencity Road Antenna is a versatile solution designed for integration on heavy-duty vehicles such as buses and trucks. This multi-band antenna supports 2G, 3G, and 4G cellular networks through its 2x2 MIMO configuration, enhancing connectivity and data transmission reliability. It includes three input ports for RF connections, enabling comprehensive network coverage. The antenna offers GNSS functionality, integrating GPS and Glonass systems to provide precise location tracking.

Constructed from ASA plastic and aluminium, the antenna is durable and can withstand harsh environmental conditions, as indicated by its IP69 ingress protection rating. It operates effectively across a wide temperature range of -40°C to 85°C, ensuring performance in various climates. Each port is optimized for specific frequency bands, with Port 1 covering 698-790 MHz, Port 2 spanning 790-960 MHz, and Port 3 handling 1710-2170 MHz with right-hand...

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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 ...

RF Specification

Ports 1-2: Cellular

Start Frequency
698 MHz
Stop Frequency
2690 MHz
Max. Input Power
80 W
Polarisation
Vertical (V)
Input Impedance
50 Ω
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 3: GPS/Glonass

Start Frequency
1574 MHz
Stop Frequency
1610 MHz
Input Impedance
50 Ω
Polarisation
Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain
30 dBic
Noise Figure
≤ 2 dB
Power Consumption
< 150 mW
Min. Operating Voltage
3.5 V
Max. Operating Voltage
5 V

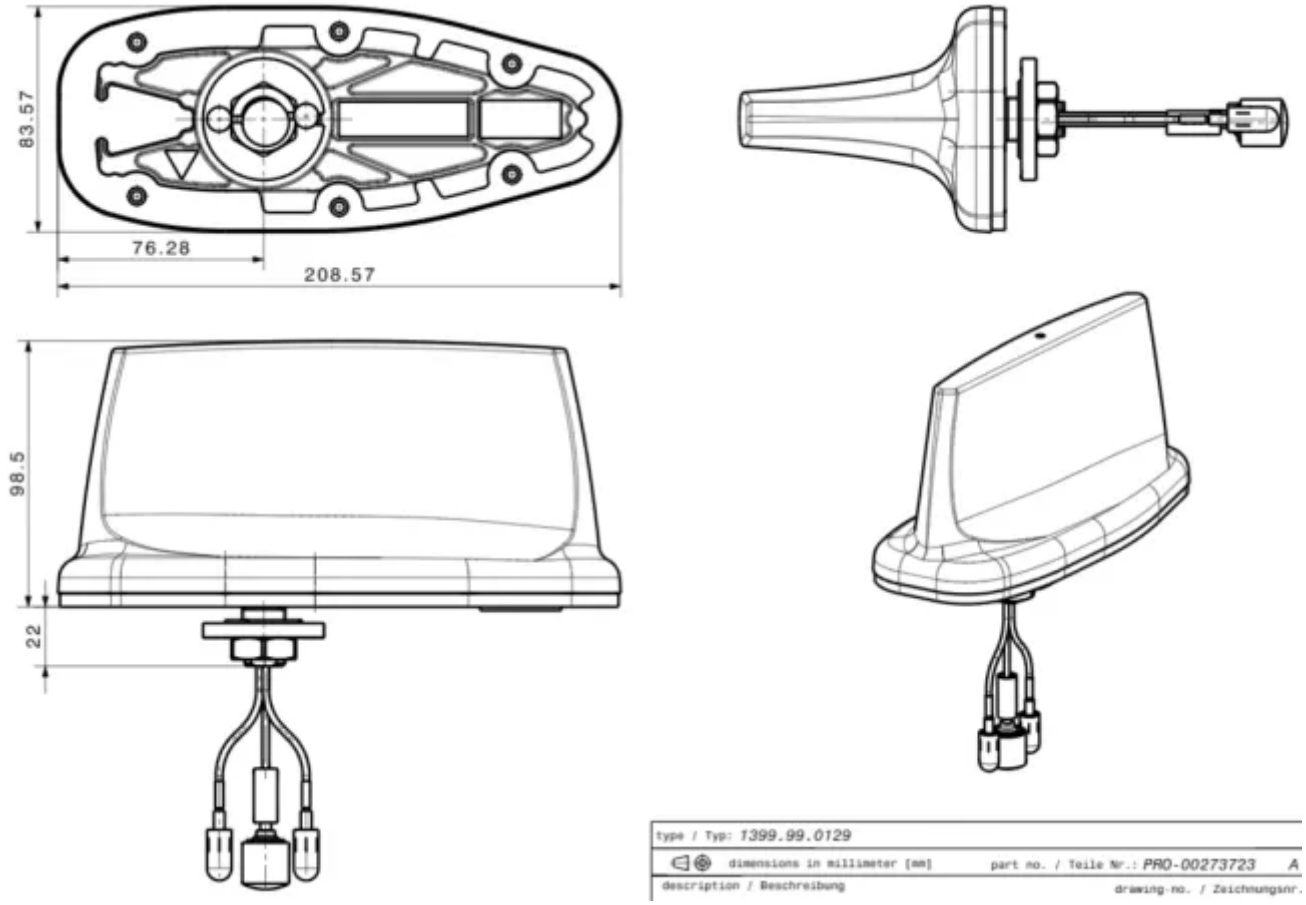
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	TNC Male	Straight	RG-316	250 mm

Physical Specification

Subtype
Fin / Stud / Combo
Input Ports
3

MIMO
2x2 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions
88 x 83 x 208
Ingress Protection
IP69
Materials
Aluminium, ASA Plastic
Mounting
Stud / Bulkhead / Panel
Weight
0.5 kg
Compliance/Certifications
CE
,
ISO 9001 Quality Management
,
RoHS
Drawing



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