

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

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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	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 3: GPS/Glonass

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

Low Noise Amplifier (LNA)

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

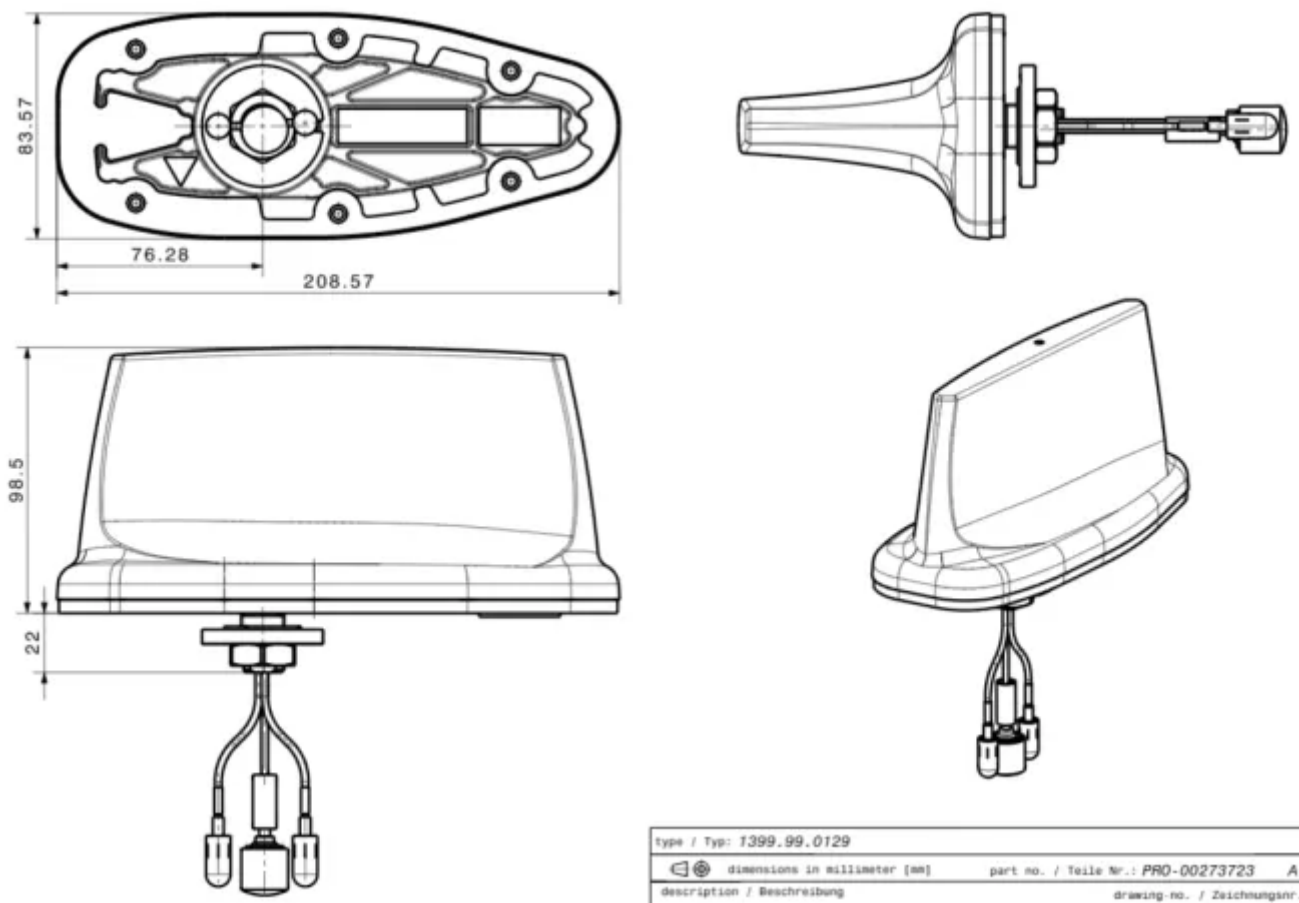
RF Connectors

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

Physical Specification

Subtype:	Fin / Stud / Combo	Dimensions:	88 x 83 x 208
Input Ports:	3	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:	0.5 kg
		Compliance/Certifications:	CE , ISO 9001 Quality Management , RoHS

Drawing



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