

# HUBER+SUHNER® DATA SHEET

## Sencity Road Antenna: 1399.99.0039

Rev.: T.00



**SWA-0860/360/5/10/DFRX30**

### Description

Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck. Supports cellular, WiFi 2.4, 5 GHz and IEEE 802.11p, GPS/Glonass. Offers a stick antenna socket and separate connector for each application. Single hole mounting, easy cabling feed-through. Works also on non-metallic surfaces.



### Product Configuration

#### Technical Data

##### Electrical Data

	<b>Band 1</b>	<b>Band 2</b>	<b>Band 3</b>	<b>Band 4</b>
Frequency (MHz)	790 - 960	1710 - 2170	2400 - 2690	1710 - 2690
VSWR	1.8	1.8	1.8	1.8
Gain (dBi)	5	4	4	6
<b>Band 5</b>				
Frequency (MHz)	4900 - 5935			
VSWR	1.8			
Gain	7 dBi			

##### General Data

Nominal impedance	50 Ω
Polarisation	vertical
Pigtail	Length: 0.3 m
Composite power max.	10 W
Ground plane	Indicated VSWR values are also valid for installations on non-metallic surfaces (no ground plane requirements).

	<Band>	<Connector>	<Cable>	<Indicator>
Port/Connector 1	Band 1,2,3	SMA-m	EF316	white
Port/Connector 2	Band 4+5	SMA-f	EF316D	blue
Port/Connector 3	GPS/Glonass	TNC-m	EF316D	black
Port/Connector 4	stick ant. socket	TNC-f	EF316	red

Isolation between ports >20 dB (Port 1 and 2)  
MIMO/Diversity support A W-CDMA 2100 and LTE 2600 2x2 MIMO configuration is supported by using port 1 and 2. In this setup, no stub antenna shall be equipped in order to ensure best MIMO performance.

Available stick antennas see section 'Related products'

##### Electrical Data (GPS)

Frequency (MHz)	1574 - 1610
VSWR	2
Nominal impedance	50 Ω
Polarisation	circular right
Connector	TNC, plug (male)
Supported systems	GPS/Galileo and Glonass

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

##### WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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LNA noise figure	2 dB
LNA current consumption	30 mA
LNA input voltage range	3..5V
Total gain @90° elevation	30 dBiC
Note	Values for LNA power consumption, noise figure and gain are given for a 5V operating voltage and may differ slightly for a lower voltage

### Mechanical Data

Dimensions (mm)	82 x 83 x 208 (Height x Width x Depth)
Weight	0.41 kg
Stick antenna	max. length = 0.5m
Mounting breakthrough	Ø30mm

### Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
Solar radiation	DIN 75220
RoHS 2002/95/EC	compliant
IP Rating	IP 69K, IP 68
Flammability	materials chosen acc. to UL 94-HB
Environmental tests	ISO 16750:2010
Corrosion	designed acc. to MIL-F-14072D (low corrosion design)
E-Mark	yes
CE-Mark	yes

### Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA_SAN
Back plate/base plate material	Aluminium

### Related Products

9091.99.0246	FM Radio Stick antenna 88-108 MHz
9091.99.0247	TETRA Stick antenna 380-430 MHz
9091.99.0248	TETRA Stick antenna 450-470 MHz
9091.99.0250	Metal ground plane foil 0.6x0.6m

### Related Documents

Mounting instruction	DOC-0000361395
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00175956
3D-model (Step)	DOC-0000367494

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