

HUBER+SUHNER® DATA SHEET

Sencity Road Antenna: 1399.99.0127

Rev.: F



SWA-0460/360/5/10/DFRX30

Description

Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck. Supports TETRA, 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.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3
Frequency (MHz)	410 - 430	2400 - 2690	4900 - 5935
VSWR	2	1.8	1.8
Gain (dBi)	4	7	7

General Data

Nominal impedance	50 Ω
Polarisation	vertical
Pigtail	Length: 0.3 m
Composite power max.	10 W
Ground plane	metal ground plane is needed, min. 500x500mm

	<Band>	<Connector>	<Cable>	<Indicator>
Port/Connector 1	Band 1	SMA-m	EF316	yellow
Port/Connector 2	Band 2+3	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)
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
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

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.



HUBER+SUHNER AG
RF Industrial
9100 Herisau, Switzerland
 Phone +41 (0)71 353 41 11
 Fax +41 (0)71 353 45 90
www.hubersuhner.com

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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

Related Documents

Mounting instruction	DOC-0000361395
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00202248
3D-model (Step)	DOC-0000367494

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