

HUBER+SUHNER® DATA SHEET

Sencity Road Antenna: 1399.99.0126



Rev.: H

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 separate connector for each application.
 Single hole mounting, easy cabling feed-through.
 Works also on non-metallic surfaces.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
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

	Band 5
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

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.

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

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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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 0.38 kg
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 Documents

Mounting instruction DOC-0000361395
Painting instruction DOC-0000256180
Security instruction DOC-0000278984
Outline drawing1 DOU-00199763
3D-model (Step) DOC-0000389491

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