

HUBER+SUHNER® DATA SHEET

Sencity Avant Antenna: 1399.17.0100



Rev.: AA

SWA-0860/360/4/0/DF_2

Description

Light-rail rooftop antenna: TDMA, D-AMPS, GSM 900, GSM 1800, GSM/PCS 900, UMTS, 2.4, 3.5, 4.9 Public Safety, 5.3 & 5.8 GHz Bands.
 Embedded GPS antenna.
 Fire retardant acc. to DIN 5510-2, BS 6853, NF F16-101/102, CEN/TS 45545 (2009).
 Works also on non-metallic surfaces.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	806 - 824	824 - 960	1710 - 2170	2400 - 2700
VSWR	1.9	1.6	1.8	1.5
Gain (dBi)	6	6	8.5	9.5
3dB beamwidth (h) (°)	360	360	360	360
3dB beamwidth (v) (°)	25			36
Front to back ratio	20 dB			

	Band 5	Band 6
Frequency (MHz)	3400 - 3700	4900 - 5935
VSWR	1.5	1.8
Gain (dBi)	9.5	8.5
3dB beamwidth (h) (°)	360	360

General Data

Nominal impedance	50 Ω
IMD level	143 dBc at carrier power 2x 30 dBm
DC grounded	Yes
Polarisation	vertical
Connector	N, jack (female), bottom
Composite power max.	100 W at ambient temperature 50 °C
Ground plane	Indicated VSWR values are also valid for installations on non-metallic surfaces (no specific ground plane requirements).

Electrical Data (GPS)

Frequency (MHz)	1574.397 - 1576.443
VSWR	1.6
Nominal impedance	50 Ω
Polarisation	circular right
Connector	N, jack (female)
Warning:	The center conductor of the GPS antenna is grounded (DC short circuit) and therefore, precautions should be taken with receivers providing a DC power supply for passive antennas.

Mechanical Data

Dimensions (mm)	90 x 70 x 250 (Height x Width x Depth)
Weight	0.55 kg
Mounting:	Shall be installed in longitudinal position to wind/driving direction.

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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Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP 68
Solar radiation	DIN 75220
RoHS 2002/95/EC	compliant
Environmental tests	EN 50155:2007
Flammability rating	DIN 5510-2, BS 6853, NF F16-101/102, CEN/TS 45545 (2009)

Material Data

Radome colour	RAL 5011 (steel blue)
Radome material	ASA_SAN
Back plate/base plate colour	RAL 5011 (steel blue)
Back plate/base plate material	Aluminium
Plating	Aluminium

Related Documents

Mounting instruction	DOC-0000248725
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing1	DOU-00093272
3D-model (Step)	DOC-0000364521

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