Data Sheet

HUBER+SUHNER

Sencity Road Antenna
1399.99.0126

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)	698 - 790	790 - 960	1710 - 2690	1710 - 2690
VSWR	2.1	1.8	2	1.8
Impedance (Ohm)	50	50	50	50
Gain (dBi)	5	5	4	6
Composite power max (W)	80	50	40	40
Ambient temperature (°C)	25	25	25	25
Port Isolation (dB)			20	20

	Band 5	Band 6
Band Name		GPS/Glonass
Frequency (MHz)	4900 - 5935	1574 - 1610
VSWR	1.8	2
Impedance (Ohm)	50	
Gain (dBi)	7	
Composite power max (W)	30	
Ambient temperature (°C)	25	

Ports

	Port 1	Port 2	Port 3
Connector	SMA, plug (male)	SMA, jack (female)	TNC, plug (male)
Cable Type	ENVIROFLEX_316_D -AM	ENVIROFLEX_316_D -AM	ENVIROFLEX_316_D -AM
Cable Length (m)	0.3	0.3	0.3
Polarization	vertical	vertical	circular right
DC grounded	Yes	No	No

Connections

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Port 1	X	X	X			
Port 2				X	X	
Port 3						X

General Data

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Indicated VSWR values are valid for a metallic ground plane of 0.5 x 0.5m or larger. In the 790-5935 MHz band, indicated VSWR values are also valid for installations on non-metallic surfaces.

A W-CDMA 2100 and LTE 2600 2x2 MIMO configuration is supported by using port 1 and 2.

Electrical Data LNA

LNA noise figure dB	2
LNA current consumption (mA)	30
LNA is connected to	Port 3

LNA input voltage range: 3..5V
Total gain @90° elevation: 30 dBiC
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 (Heigth x Width x Depth)
Weight (kg)	0.38

Mounting breakthrough Ø30mm

Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP68, IP69
Flammability rating	ECE-R118
Solar radiation	DIN 75220
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
WEEE 2012/19/EU	no special marking needed
ELV 2000/53/EC	compliant
REACH 1907/2006/EC	compliant

ISO 16750:2010 environmental tests
MIL-F-14072D low corrosion design
E-Mark
CE-Mark

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	ASA (acrylic ester-styrene-acrylonitrile)
Back plate/base plate material	Aluminium

Related Documents

Mounting instruction	DOC-0000361395
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00199763
3D-model	DOC-0000389491