Data Sheet

HUBER+SUHNER

Sencity Road MIMO Antenna
1399.99.0128

Description

Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck.
Supports WiFi 2.4, 5 GHz and IEEE 802.11p in 3x3 MIMO configurations.
Single hole mounting, easy cabling feed-through.
Works also on non-metallic surfaces.

Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2
Frequency (MHz)	2400 - 2690	4900 - 5935
VSWR	1.8	1.8
Impedance (Ohm)	50	50
Gain (dBi)	6	7
Composite power max (W)	40	30
Ambient temperature (°C)	25	25
Port Isolation (dB)	14	22

Ports

	Port 1	Port 2	Port 3
Connector	SMA, jack (female)	SMA, jack (female)	SMA, jack (female)
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	vertical
DC grounded	Yes	No	Yes

Connections

	Band 1	Band 2
Port 1	X	X
Port 2	X	X
Port 3	X	X

General Data

Indicated VSWR values are also valid for installations on non-metallic surfaces (no ground plane requirements).

Mechanical Data

Dimensions (mm)	82 x 83 x 208 (Heigth x Width x Depth)
Weight (kg)	0.41

Mounting breakthrough Ø30mm

Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-40 to 85

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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-00256404
3D-model	DOC-0000446454

Additional Information

This product can be customized within the order process. Available options are: - Different radiator combinations - Different cable pigtail length and RF connector types - Fulfillment of fire safety standards EN 45545, DIN 5510 or ECE-R118 - ...and more. Note: The antenna gain as indicated above will vary for a different cable length. For a gain calculation please consider the cable attenuation per meter for the respective frequency band.