Data Sheet

HUBER+SUHNER

SENCITY® Road MULTI Antenna
1399.19.0402

Description

Rugged vehicle rooftop multi-band antenna for commercial vehicles like bus and truck.

Supports 2G/3G/4G/5G cellular, Wifi 2.4/5 GHz, Wifi 6E.

4 separate ports for 2x2 cellular MIMO and 2x2 Wifi MIMO.

Meets ISO16750 automotive standard.

Fire retardant acc. to ECE-R118.

Single hole mounting, easy cabling feed-through.

Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Band Name	Cellular	Cellular	Cellular	Cellular
Frequency (MHz)	617 - 960	1350 - 2700	3300 - 4200	4900 - 7125
VSWR	2	2.1	2	2
Impedance (Ohm)	50	50	50	50
Gain (dBi)	2	4	4	5
Composite power max (W)	40	40	40	40
Ambient temperature (°C)	25	25	25	25
Port isolation (dB)	9	18	15	18

	Band 5	Band 6
Band Name	WiFi	WiFi
Frequency (MHz)	2400 - 2500	4900 - 7125
VSWR	2	2
Impedance (Ohm)	50	50
Gain (dBi)	6	6
Composite power max (W)	30	30
Ambient temperature (°C)	25	25
Port isolation (dB)	24	24

Ports

	Port 1 to 2	Port 3 to 4
Port name	Cell 1-2 (white)	WiFi 1-2 (blue)
Connector	SMA, plug (male)	SMA, plug (male)
Cable Type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable Length (m)	0.3	0.3
Polarization	Vertical	Vertical
DC Grounded	Yes	Yes

Connections

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

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General Data

Ground plane: Indicated VSWR values are valid for a metallic ground plane of 0.5 x 0.5m or larger and Isolation is provided as typical values. Indicated VSWR values are mostly valid for installations on non-metallic surfaces also (no specific ground plane requirements). Indicated gain values will be achieved on a metallic ground plane of 1 x 1 m or larger.

Mechanical Data

Dimensions (mm)	210 x 60 (Diameter x Height)
Weight (kg)	1.1
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
IP rating	IP68, IP69k
Flammability rating	ECE-R118
Solar radiation	DIN 75220
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
REACH 1907/2006/EC	compliant

Environmental tests: ISO 16750:2012/2010
Low corrosion designed acc. to MIL-F-14072D
E-Mark
CE-Mark

Material Data

Radome colour	RAL 7043 (dark grey)
Radome material	PC (Polycarbonate)
Back plate/base plate material	Aluminium

Related Products
(Order separately)
9091.99.0250 Metal ground plane foil 0.6x0.6m

Related Documents

Mounting instruction	DOC-0001163417
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-01159002
3D-model	DOC-0001155892