

Sencity Road Antenna 1399.99.0127

Description

Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck. Supports TETRA, WiFi 2.4, 5 GHz and IEEE 802.11p, GPS/Glonass. Offers a stick antenna socket and separate connector for each application. Single hole mounting, easy cabling feed-through.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Band Name				GPS/Glonass
Frequency (MHz)	410 - 430	2400 - 2690	4900 - 5935	1574 - 1610
VSWR	2	1.8	1.8	2
Impedance (Ohm)	50	50	50	50
Gain (dBi)	4	7	7	
Composite power max (W)	80	40	30	
Ambient temperature (°C)	25	25	25	
Port Isolation (dB)	20	20	20	

	Band 5
Band Name	Socket

Ports

	Port 1	Port 2	Port 3	Port 4
Connector	SMA, plug (male) / jack (female)	SMA, jack (female)	TNC, plug (male)	TNC, jack (female)
Cable Type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable Length (m)	0.3	0.3	0.3	0.3
Polarization	vertical	vertical	circular right	
DC grounded	Yes	No	No	No

Connections

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

General Data

Indicated VSWR are valid for a metal ground plane of min. 500x500mm. Available stick antennas see section 'Related products'.

Electrical Data LNA

LNA noise figure dB

2

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LNA current consumption (mA) 30
LNA is connected to Port 4

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 (Height x Width x Depth)
Weight (kg) 0.41

Stick antenna max. length = 0.5m.

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 Products

9091.99.0246 FM Radio Stick antenna 88-108 MHz

Related Documents

Mounting instruction DOC-0000361395
Painting instruction DOC-0000256180
Security instruction DOC-0000278984
Outline drawing DOU-00202248
3D-model DOC-0000367494

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.