

## SENCITY® Road MULTI Antenna 1399.99.0400

### 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 and GNSS (Beidou, Galileo, GPS, Glonass).

3 separate ports for 2x2 cellular MIMO plus GNSS.

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 7
Band Name	WiFi	WiFi	GNSS
Frequency (MHz)	2400 - 2500	4900 - 7125	1559 - 1610
VSWR			1.8
Impedance (Ohm)			50
Gain (dBi)			
Composite power max (W)			
Ambient temperature (°C)			
Port isolation (dB)			

#### Ports

	Port 1 to 2	Port 3
Port name	Cell 1-2 (white)	GNSS (black)
Connector	SMA, plug (male)	TNC, plug (male)
Cable Type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable Length (m)	0.3	0.3
Polarization	Vertical	Circular right
DC Grounded	Yes	No

#### Connections

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 7
Port 1 to 2	X	X	X	X	(X: Band 2)	(X: Band 4)	
Port 3							X

## SENCITY® Road MULTI Antenna 1399.99.0400

### 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.

### Electrical Data LNA

LNA noise figure dB	1.6
LNA current consumption (mA)	20
LNA is connected to	Port 5
LNA input voltage range:	3..5V
Total gain @90° elevation:	30 dBiC

### 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  
ECE-R10  
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