

## SENCITY® Road MULTI Antenna 1399.19.0424

### Description

Rugged vehicle rooftop multi-band antenna for commercial vehicles like bus and truck.  
 Supports TETRA, LTE450, 2G/3G/4G/5G cellular, Wifi 2.4/5 GHz, Wifi 6E.  
 4 separate ports for 1x TETRA/cellular and 3x3 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	TETRA/LTE450	Cellular	Cellular	Cellular
Frequency (MHz)	380 - 470	617 - 960	1350 - 2700	3300 - 4200
VSWR	2.5	2.1	2.1	2.1
Impedance (Ohm)	50	50	50	50
Gain (dBi)	3	2	4	4
Composite power max (W)	40	40	40	40
Ambient temperature (°C)	25	25	25	25
Port isolation (dB)	-	-	-	-

	Band 5	Band 6	Band 7
Band Name	Cellular	WiFi	WiFi
Frequency (MHz)	4900 - 7125	2400 - 2500	4900 - 7125
VSWR	2.1	2.1	2.1
Impedance (Ohm)	50	50	50
Gain (dBi)	5	6	6
Composite power max (W)	40	30	30
Ambient temperature (°C)	25	25	25
Port isolation (dB)	-	20	20

##### Ports

	Port 1	Port 2 to 4
Port name	Tetra 1 (white)	WiFi 1-3 (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	Band 7
Port 1	X	X	X	X	X		
Port 2 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