

## Sencity Road MIMO Antenna 1399.99.0119

### Description

Rugged vehicle rooftop multi-band antenna for heavy duty vehicles like bus and truck.  
Supports 2G/3G/4G cellular bands in 2x2 MIMO configurations.  
Single hole mounting, easy cabling feed-through.



### Product Configuration

#### Technical Data

##### Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	698 - 790	790 - 960	1710 - 2170	2400 - 2690
VSWR	2.2	2	2	2
Impedance (Ohm)	50	50	50	50
Gain (dBi)	4	4	6	6
Composite power max (W)	80	50	40	40
Ambient temperature (°C)	25	25	25	25
Port Isolation (dB)	12	12	15	15

##### Ports

	Port 1	Port 2
Connector	SMA, plug (male)	SMA, plug (male)
Cable Type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable Length (m)	0.17	0.23
Polarization	vertical	vertical
DC grounded	No	No

##### Connections

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

##### General Data

Indicated VSWR values are valid for a metallic ground plane of 0.75 x 0.75m or larger. In the 790-5935 MHz band, indicated VSWR values are also valid for installations on non-metallic surfaces (no specific ground plane requirements).

##### Mechanical Data

Dimensions (mm) 88 x 83 x 208 (Height x Width x Depth)  
Weight (kg) 0.4

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 Products

9091.99.0250 Metal ground plane foil 0.6x0.6m

### Related Documents

Mounting instruction	DOC-0000361395
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00275588
3D-model	DOC-0000470978