

## SENCITY® Road IC MIMO Antenna 1399.99.0186

### Description

Compact omni-directional 2x2 MIMO in-carriage antenna for busses.  
 Supports 2x2 WiFi MIMO in Wi-Fi 4 / Wi-Fi 6 and Wi-Fi 6E bands.  
 Supports 2x2 Cellular MIMO in 2.3 / 2.6 / 3.5 GHz bands.  
 Vandalism proof design.  
 Fire retardant acc. to ECE-R118.  
 Single hole mounting.  
 FAKRA connector, cable length 3m.



### Product Configuration

#### Technical Data

##### Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	2300 - 2500	2500 - 2690	3400 - 4200	4900 - 5975
VSWR	1.5	1.5	1.8	1.5
Impedance (Ohm)	50	50	50	50
Gain (dBi)	2	2	2	1
Composite power max (W)	40	40	40	30
Ambient temperature (°C)	25	25	25	25
Port isolation (dB)	22	22	25	27

  

	Band 5
Frequency (MHz)	5975 - 7125
VSWR	1.7
Impedance (Ohm)	50
Gain (dBi)	0
Composite power max (W)	20
Ambient temperature (°C)	25
Port isolation (dB)	30

##### Ports

	Port 1 to 2
Port name	Cell / WiFi 1 to 2 (white)
Connector	FAKRA, jack (female)
Cable Type	ENVIROFLEX_316_D-AM
Cable Length (m)	3.0
Polarization	Vertical
DC Grounded	Yes

##### Connections

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

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### General Data

Ground plane: Antenna works on metallic as well as on non-metallic ground plane. Indicated gain values are valid for an antenna mounted on metallic ground plane of 0.5m diameter.

### Mechanical Data

Dimensions (mm) 33.2 x 145 (Height x Diameter)  
Weight (kg) 0.9

Mounting breakthrough Ø 29mm

### 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  
REACH 1907/2006/EC compliant

Environmental tests: ISO 16750:2010  
CE-Mark

### Material Data

Radome colour RAL 7044 (grey)  
Radome material Reinforced PC (Polycarbonate)

### Related Documents

Mounting instruction DOC-0000756790  
Painting instruction DOC-0000256180  
Security instruction DOC-0000278984  
Outline drawing DOU-00480139  
3D-model DOC-0001112868