

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	40
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	Port 2
Connector	FAKRA, jack (female)	FAKRA, jack (female)
Cable Type	ENVIROFLEX_316_D-AM	ENVIROFLEX_316_D-AM
Cable Length (m)	3.0	3.0
Min. radius static (mm)	0.5	0.5
Min. radius dynamic (mm)	30	30
Polarization	vertical	vertical
DC grounded	Yes	Yes

Connections

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