

SENCITY® OMNI-M Antenna

1399.17.0320

Description

6-Port antenna.

Supports 4x4 Cellular MIMO for 3G, 4G and 5G.

Supports 2x2 Wi-Fi MIMO in all Wi-Fi 6E bands.

4 radiators for Cellular bands.

2 radiators for Wi-Fi/WiMAX bands.

Rugged design, meets EN 60068 Standard.

Single hole mount on cabinet or roof.



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Band Name	Cellular 1-4	Cellular 1-4	Cellular 1-4	Cellular 1-4
Frequency (MHz)	617 - 960	1350 - 2700	3300 - 4200	4900 - 7125
VSWR	2.0	2.1	2.0	2.0
Impedance (Ohm)	50	50	50	50
Gain (dBi)	2	4	4	5
Composite power max (W)	80	80	80	80
Ambient temperature (°C)	25	25	25	25
Port Isolation (dB)	9	18	15	18

	Band 5	Band 6
Band Name	Wi-Fi 1-2	Wi-Fi 1-2
Frequency (MHz)	2400 – 2500	4900 – 7125
VSWR	2.0	2.0
Impedance (Ohm)	50	50
Gain (dBi)	6	6
Composite power max (W)	80	80
Ambient temperature (°C)	25	25
Port Isolation (dB)	24	24

Ports

	Port 1 to 4	Port 5 to 6
Port name	Cellular 1-4	Wi-Fi 1-2
Connector	N, jack (female)	N, jack (female)
Cable Type	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Polarization	vertical	vertical
DC grounded	Yes	Yes

Connections

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
Port 1 to 4	X	X	X	X		
Port 5 to 6					X	X

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General Data

Ground plane: Indicated VSWR values are also valid for installations on non-metallic surfaces (no specific ground plane requirements).
Indicated gain values will be achieved on a metallic ground plane of 500 x 500 mm or larger.
Please refer to the outline drawing to read the cable pigtail length of each port.

This Antenna is compliant with the Radio Equipment Directive 2014/53/EU
ETSI EN 303 413 V.1.1.1 (2017-06)

Mechanical Data

Dimensions (mm)	211.5 x 62.5 (Diameter x Height)
Weight (kg)	1.2

Corrosion: Low corrosion design according to MIL-F-14072(E), 96 hours Salt Spray test.
Mounting: Shall be installed in longitudinal position to the wind/driving direction.
Suitable for installation on vehicles with a maximum speed of 160 km/hr.

Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-55 to 85
Transport temperature (°C)	-40 to 85
IP rating	IP69
Solar radiation	UL 746C, F1
2011/65/EU (RoHS -including 2015/863 and 2017/2102)	compliant acc. Annex III
Lead-free soldered	yes
WEEE 2012/19/EU	no special marking needed
ELV 2000/53/EC	compliant
REACH 1907/2006/EC	compliant

Environmental tests: EN 60068

EN 60068-2-1 Cold temperature test Ad, -55°C, 16h

EN 60068-2-2 Dry heat test Bd +85°C, 16h

EN 60068-2-30 Damp heat cyclic test Db, +25/55°C, 2 cycles

EN 60068-2-11 Salt Mist test Ka, 96h

EN 61373 § 9 Mechanical Vibration test, Cat. 2

EN 61373 § 10 Mechanical shock test, Cat. 2

EN 60529 Ingress protection test, IP69

Material Data

Radome colour	RAL 7044 (light grey)
Radome material	PC (Polycarbonate)
Back plate/base plate material	Aluminum