

SENCITY® Omni-S LTE800 + 2x2 WiFi MIMO Antenna 1399.19.0227

Description

Omni-directional Cellular/4G LTE800 SISO and WiFi 2x2 MIMO antenna
Cellular/LTE 790-960, 1710-2170 and 2300-2690 MHz on one port
WiFi dual-band 2.4-2.5, 4.9-6 GHz + 3.8-3.8 GHz on two further ports
Rugged and low profile cabinet and pole/wall mount antenna
Single hole cabinet mounting, for outdoor & indoor applications
Vandalism proof "IK10" acc. to IEC 62262/2002-02



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Band Name	Cell/LTE	Cell/LTE	Cell/LTE	2x2 WiFi
Frequency (MHz)	790 - 930	930 - 960	1710 - 2690	2300 - 2500
VSWR	2.2	3	2	1.6
Impedance (Ohm)	50	50	50	50
Gain (dBi)	4	3	4	5
Composite power max (W)	90	60	40	40
Ambient temperature (°C)	25	25	25	25
Port Isolation (dB)	-20	-20	-15	-15

	Band 5	Band 6	Band 7
Band Name	2x2 WiFi	2x2 WiFi	2x2 WiFi
Frequency (MHz)	2500 - 2690	3400 - 3800	4900 - 6400
VSWR	2	2	2
Impedance (Ohm)	50	50	50
Gain (dBi)	5	6	5
Composite power max (W)	30	30	30
Ambient temperature (°C)	25	25	25
Port Isolation (dB)	-15	-18	-18

Ports

	Port 1	Port 2	Port 3
Port name	Cellular/LTE	WiFi 1	WiFi 2
Connector	SMA, plug (male)	SMA-reverse, plug (male)	SMA-reverse, plug (male)
Cable Type	ENVIROFLEX_316_D	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Cable Length (m)	1	1	1
Min. radius static (mm)	5	5	5
Min. radius dynamic (mm)	30	30	30
Polarization	vertical	vertical	vertical

Connections

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 7
Port 1	X	X	X				

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Port 2	X	X	X	X
Port 3	X	X	X	X

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, measured on the end of the 1 m long pigtailed.

INGRESS PROTECTION:

- IP 69K when mounted on cabinet's flat surface or roof
- IP 66 and IP67 when mounted on bracket with sealed cable conduit

Mechanical Data

Dimensions (mm)	33.2 x 145 (Height x Diameter)
Weight (kg)	0.32

Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature (°C)	-55 to 85
Storage temperature (°C)	-55 to 85
Transport temperature (°C)	-55 to 85
Flammability rating	UL 94-V0
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
Lead-free soldered	yes
WEEE 2012/19/EU	special marking needed
REACH 1907/2006/EC	compliant

TEMPERATURE RANGE: EN 60068-2-1 (2007), test Ab, -55°C, 16h and EN-60068-2-2 (2007), test Bb, +85°C, 16h

THERMAL SHOCK: IEC 60068-2-14 (2009), test Na, -55°C to +85°C, 3h, 5 cycles

SOLAR RADIATION: EN 60068-2-5, test Sa, procedure B, 1200 W/m², 3 x 24h

RELATIVE HUMIDITY: EN 60068-2-78 (2012), test Cb, RH 95%, 21d (damp heat, steady state)

RELATIVE HUMIDITY: EN 60068-2-30 (2005), RH 97%, 6 cycles (damp heat, cyclic)

SALT SPRAY: EN 60068-2-11 (2002), test Ka, 96h

MECHANICAL VIBRATION / SHOCK: IEC 61373 (1999), § 9 and § 10, category 2

VANDALISM: EN 60068-2-75 (1997), IEC 62262 (2002) IK10, test Ehc

CORROSION: MIL-F-14072 E type 1 "exposed"

Material Data

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

Related Products

9091.99.0259 Bracket kit for SENCITY® Omni-S MIMO antenna

Related Documents

Mounting instruction	DOC-0000711826
Painting instruction	DOC-0000256180
Security instruction	DOC-0000278984
Outline drawing	DOU-00323439
3D-model	DOC-0000768894

Additional Information

This product can be customized alternatively in the following way: - 1 to 3 WiFi radiator elements, as described above, for total two up to four ports - Cable length from 300 to 5000 mm - Choice of RF connector (SMA, R-SMA, QMA, TNC, R-TNC, N) - Customer specific port labeling on pigtailed - Optional wall / mast mount bracket kit