

SENCITY® Omni-S LTE 800 + GNSS Antenna

1399.26.0053

Properties

- Omnidirectional Cellular/ LTE and GNSS antenna
- Supporting 2G, 3G, 4G LTE 800 MHz up to LTE 2600 MHz
- Cellular/LTE 800 vertical polarized radiator for SISO on one port
- Circular polarized GNSS antenna with LNA on second port
- Single hole cabinet mounting, for outdoor & indoor applications
- Vandalism proof "IK10" acc. to IEC 62262/2002-02



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Name	Cellular/LTE	Cellular/LTE	Cellular/LTE	Cellular/LTE
Frequency	790 MHz ... 930 MHz	930 MHz ... 960 MHz	1710 MHz ... 2170 MHz	2300 MHz ... 2690 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	2	2.5	1.7	1.7
Gain	2 dBi	2 dBi	6 dBi	4 dBi
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	60 W	60 W	50 W	40 W

	Band 5
Name	GNSS
Frequency	1559 MHz ... 1610 MHz
Impedance	50 Ω
VSWR	1.8
Gain	
Ambient Temperature	
Composite Power max	

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Electrical remarks	
Remarks	GROUND PLANE: Antenna works on metallic as well as on non-metallic ground plane. VSWR is valid for both mounting options GAIN VALUES: Indicated gain values are valid for non-metallic ground plane. Gain of this antenna on metallic surface is higher for 790 to 960 MHz: 3.5 dBi (instead of 2 dBi)

Ports		
	Port 1	Port 2
Port name	Cellular/LTE	GNSS
Connector	TNC, jack (female)	TNC-R, jack (female) reversed
Cable type	ENVIROFLEX_316_D	ENVIROFLEX_316_D
Cable length	1 m	1 m
Polarization	vertical	circular right
DC grounded	No	No

Connections		
	Port 1	Port 2
Port name	Cellular/LTE	GNSS
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4	✓	
Band 5		✓

Electrical data LNA	
LNA is connected to	Port 2
Input voltage	3 V ... 5 V
Current consumption	30 mA
Noise figure	2 dB
Total gain @90° elevation	30 dBic
Remarks	NOTE: Values for LNA power consumption, noise figure and gain are given for a 5V operating voltage and may differ slightly for a lower voltage

Mechanical data	
Weight	0.35 kg
Dimensions	33.2 mm x 145 mm (Height x Diameter)

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

Environmental data	
Operation temperature	-55 °C ... 85 °C
Storage temperature	-55 °C ... 85 °C
Transport temperature	-55 °C ... 85 °C
Environment (application)	Outdoor

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Environmental data

Flammability rating	UL 94-V0
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Environmental remarks

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

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"

Ordering information

Item description	Item number	Product name
1399.26.0053	85102127	SENCITY® Omni-S LTE 800 + GNSS Antenna

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