

SENCITY® SC Panel

91121363

Properties

- 1-Port Panel Antenna
- Frequency Band 380-500
- Vertical Polarization
- Half-power Beam Width 65°
- Gain 12 dBi



Electrical bands		
	Band 1	Band 2
Frequency	380 MHz ... 430 MHz	430 MHz ... 500 MHz
Impedance	50 Ω	50 Ω
VSWR	1.5	1.5
Gain	11.5 dBi	12 dBi
HPBW vertical	37 °	32 °
HPBW horizontal	68 °	63 °
Front to back ratio	18 dB	20 dB
Ambient Temperature	50 °C	50 °C
Composite Power max	500 W	50 W

Electrical remarks

Remarks	IMD level -150 dBc at carrier power 2x 43dBm
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Ports

	Port 1
Connector	7/16, jack (female)
Polarization	vertical
DC grounded	Yes

Connections

Port number	Port 1
Band 1	✓
Band 2	✓

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Mechanical data	
Weight	12 kg
Dimensions	992 mm x 492 mm x 190 mm (Height x Width x Depth)
Remarks	Windload frontal: 500 N at 150 km/h, lateral: 220 N at 150 km/h , Wind speed survival: 200 km/h
	Packing size (mm): 1140x523x252
	Material: Reflector screen: Weather-proof aluminum. All screws and nuts: Stainless steel
	Grounding: The metal parts of the antenna including the mounting kit and the inner conductors are DC grounded.
	Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.
Interface and material data	
Radome material	Glass Reinforced Plastic (GRP)
Radome colour	Grey
Back plate/base plate material	Aluminium
Back plate/base plate colour	Grey
Environmental data	
Environment (application)	Outdoor

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Technical drawing of the antenna assembly, showing three views: front, side, and top.

Front View: The main view of the antenna. It is a rectangular unit with a central circular element. Dimensions include a total height of 1086 mm, a mounting bracket height of 1048 mm, and a central element height of 988 mm. A 7/16-female connector is located 125 mm from the bottom center. The bottom section has a width of 454 mm. A detail 'X' is indicated at the top.

Side View: Shows the profile of the antenna. The total width is 230 mm, and the mounting bracket width is 190 mm.

Top View: Shows the antenna from above. It features two rectangular mounting brackets, each 72 mm wide, with a 64 mm gap between them. The distance from the edge to the center of each bracket is 9 mm. A detail 'X' is indicated at the top.

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