

SENCITY® SC Panel

1399.31.0250

Properties

- 2-Port Panel Antenna
- Frequency Range 698-960 MHz
- GSM-R
- Dual Polarization (X-Pol)
- Half-power Beam Width 33°
- Gain 20 dBi
- ETSI 300 019-1-4 class 4.1 E



Electrical data			
	Band 1	Band 2	Band 3
Frequency	698 MHz ... 806 MHz	790 MHz ... 894 MHz	880 MHz ... 960 MHz
Impedance	50 Ω	50 Ω	50 Ω
Polarization	±45°	±45°	±45°
VSWR	1.5	1.5	1.5
Gain at mid tilt	19.2 dBi	19.9 dBi	20.5 dBi
Gain over all tilts	19.2 ±0.6 dBi	19.9 ±0.6 dBi	20.5 ±0.5 dBi
Horizontal beamwidth (3dB)	36 ±4 °	33 ±4 °	30 ±3 °
Vertical beamwidth (3dB)	8.4 ±0.9 °	7.6 ±0.7 °	7 ±0.5 °
Isolation between Ports	28 dB	28 dB	28 dB
Front to back ratio	25 dB	25 dB	25 dB
Co/Cross polar ratio, boresight	20 dB	20 dB	20 dB
Front to Back Ratio, Copolar, ±30°	25 dB	25 dB	25 dB
Sidelobe suppression, 1st upper	≥ 17 dB	≥ 17 dB	≥ 17 dB
Vertical Electrical downtilt continuously adjustable	0-8	0-8	0-8
Ambient Temperature	25 °C	25 °C	25 °C
Composite Power max	300 W	300 W	300 W
Passive Intermodulation	-150 dBc 2x 43 dBm Carrier	-150 dBc 2x 43 dBm Carrier	-150 dBc 2x 43 dBm Carrier

Electrical remarks	
IMD level	-150 dBc at carrier power 2x 43 dBm
Remarks	Values based on NGMN-P-BASTA requirement Internal RET (ICH)

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Ports		
	Port 1	Port 2
Port name	R1 Connector 1	R1 Connector 2
Connector	4.3-10, jack (female)	4.3-10, jack (female)
Connector position	Bottom	Bottom
Polarization	+45°	-45°
DC grounded	Yes	Yes

Connections		
	Port 1	Port 2
Port name	R1 Connector 1	R1 Connector 2
Band 1	✓	✓
Band 2	✓	✓
Band 3	✓	✓

Mechanical data	
Weight	31 kg
Dimensions	2695 mm x 565 mm x 170 mm (Height x Width x Depth)
Windload	front: 1982 N at 150 km/h, lateral: 596.4 N at 150 km/h, Wind Speed survival: 216 km/h

Material data	
Radome material	FRP (Fiber-reinforced plastic)
Radome colour	Gray

Environmental data	
Operation temperature	-55 °C ... 70 °C
Environment (application)	Outdoor

Environmental remarks
Environmental tests: ETSI 300 019-2-4

Related Products
738546 Clamp 42-115mm
85010002 Clamp 110-220mm
85010003 Clamp 210-380mm
85010009 Downtilt Kit

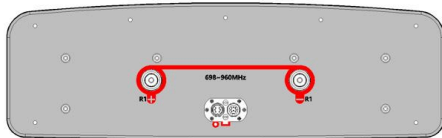
Additional Information
Datasheet published is subject to changes.

Antenna accessories remarks
Order separately. For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit.

Ordering information		
Item description	Item number	Product name
1399.31.0250	85226004	SENCITY® SC Panel

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Layout

Antenna Model	Connector	CH	RET Serial
1399.31.0250	R1	RET 1	HSXXXXXXXXYYWW00000

Remark : YY – Year, WW – Week, 00000 – Serial Number

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