

SENCITY® SC Panel

1399.31.0256

Properties

- 4-Port Panel Antenna
- Frequency Range 1710-2170 MHz
- FRMCS
- 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
Frequency	1710 MHz ... 1880 MHz	1900 MHz ... 2170 MHz
Impedance	50 Ω	50 Ω
Polarization	±45°	±45°
VSWR	1.5	1.5
Gain at mid tilt	19.2 dBi	19.9 dBi
Gain over all tilts	19.1 ±0.6 dBi	19.8 ±0.6 dBi
Horizontal beamwidth (3dB)	36 ±4 °	33 ±4 °
Vertical beamwidth (3dB)	7.8 ±0.8 °	7 ±0.7 °
Isolation between Ports	30 dB	30 dB
Cross polar Isolation	30 dB	30 dB
Co/Cross polar ratio, boresight	18 dB	18 dB
Front to Back Ratio, Copolar, ±30°	28 dB	28 dB
Sidelobe suppression, 1st upper	17 dB	17 dB
Vertical electrical downtilt	0-10°	0-10°
Composite Power max	300 W	300 W
Passive Intermodulation	-150 dBc 2x 43 dBm Carrier	-150 dBc 2x 43 dBm Carrier

Electrical remarks

Remarks	Value based on NGMN-P-BASTA requirement Internal RET (2CH)
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Ports		
	Port 1 to 2	Port 3 to 4
Port name	B1	B2
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 to 2	Port 3 to 4
Port name	B1	B2
Band 1	✓	✓
Band 2	✓	✓

Mechanical data	
Weight	17.7 kg
Dimensions	1245 mm x 565 mm x 170 mm (Height x Width x Depth)
Windload	front: 538.6 N at 150 km/h, lateral: 190.7 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

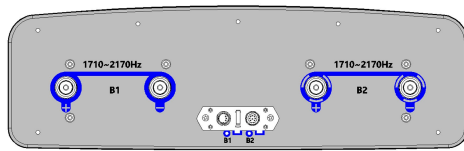
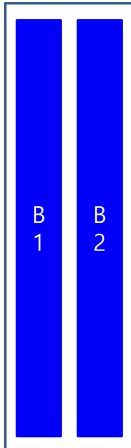
Environmental remarks
Environmental tests: ETSI 300 019-2-4

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

Ordering information		
Item description	Item number	Product name
1399.31.0256	85257459	SENCITY® SC Panel

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Layout

Antenna Model	Connector	CH	RET Serial
1399.31.0256	B1	RET 1	HSXXXXXXB1YYWW00000
1399.31.0256	B2	RET 2	HSXXXXXXB2YYWW00000

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

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