

SENCITY® SC Panel Antenna

1399.31.0200

Properties

- 2-Port Panel Antenna
- Frequency Range 698-960 MHz
- Dual Polarization (X-Pol)
- Half-power Beam Width 65°
- Adjust. Electrical Downtilt 0°-10°T
- Preset Downtilt to 2°T
- Internal RCU (Remote Control Unit)
- Gain 16dBi
- ETSI 300 019-1-4 class 4.1 E



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Frequency	698 MHz ... 803 MHz	791 MHz ... 862 MHz	824 MHz ... 894 MHz	880 MHz ... 960 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	1.5	1.5	1.5	1.5
Gain	15.6 dBi	15.9 dBi	16 dBi	16.3 dBi
Horizontal beamwidth (3dB)	68 °	64 °	62 °	59 °
Vertical beamwidth (3dB)	12.4 °	11.3 °	10.5 °	10 °
Isolation between Ports	30 dB	30 dB	30 dB	30 dB
Front to back ratio	25 dB	25 dB	25 dB	25 dB
Co/Cross polar ratio, boresight	20 dB	20 dB	20 dB	19 dB
Sidelobe suppression, 1st upper	17 dB	17 dB	17 dB	16 dB
Vertical Electrical downtilt continuously adjustable	0-10°	0-10°	0-10°	0-10°
Ambient Temperature	25 °C	25 °C	25 °C	25 °C
Composite Power max	300 W	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	-150 dBc 2x 43 dBm Carrier

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Electrical remarks	
Remarks	Values based on NGMN-P-BASTA requirement. Factory preset of electrical down tilt to 2°T Gain by Beam Tilt (0/5/10): Band 1(15.7/15.6/15.3), Band 2(15.9/15.9/15.7), Band 3(16.0/16.0/15.9), Band 4(16.3/16.3/16.2)

Ports		
	Port 1	Port 2
Connector	4.3-10, jack (female)	4.3-10, jack (female)
Polarization	±45°	±45°
DC grounded	Yes	Yes

Connections		
	Port 1	Port 2
Band 1	✓	✓
Band 2	✓	✓
Band 3	✓	✓
Band 4	✓	✓

Mechanical data	
Weight	12 kg
Dimensions	1850 mm x 295 mm x 145 mm (Height x Width x Depth)
Windload	front: 712 N at 150 km/h, lateral: 350 N at 150 km/h, Wind Speed survival: 240 km/h
Remarks	Packing Size: 1960 x 373 x 314 (Height x Width x Depth) Connector position: Bottom Top/bottom cover material: PC (FI)

Material data	
Radome material	ASA
Radome colour	Grey
Back plate/base plate material	PC (Polycarbonate)

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	
Internal RET (AISG 2.0)	

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Ordering information		
Item description	Item number	Product name
1399.31.0200	85184054	SENCITY® SC Panel Antenna

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