

SENCITY® SC Panel

91121777V02

Properties

- 4-Port Panel Antenna
- Frequency Range 690-960 MHz / 1710-2690 MHz
- Dual Polarization (X-Pol)
- Half-power Beam Width 65°
- Gain 16.5 dBi / 18.5 dBi
- ETSI 300 019-1-4 class 4.1 E



Electrical data				
	Band 1	Band 2	Band 3	Band 4
Frequency	690 MHz ... 806 MHz	790 MHz ... 894 MHz	880 MHz ... 960 MHz	1710 MHz ... 1880 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Polarization	±45°	±45°	±45°	±45°
VSWR	1.5	1.5	1.5	1.5
Gain at mid tilt	16.1 dBi	16.5 dBi	16.7 dBi	17.3 dBi
Gain over all tilts	16.1 ±0.6 dBi	16.4 ±0.5 dBi	16.6 ±0.5 dBi	17.3 ±0.5 dBi
Horizontal beamwidth (3dB)	66 ±4 °	65 ±4 °	63 ±3 °	66 ±5 °
Vertical beamwidth (3dB)	8.6 ±0.8 °	7.7 ±0.7 °	7 ±0.5 °	7.2 ±0.6 °
Cross polar Isolation	28 dB	28 dB	28 dB	28 dB
Port isolation, interband	30 dB	30 dB	30 dB	30 dB
Co/Cross polar ratio, boresight	18 dB	18 dB	18 dB	18 dB
Front to Back Ratio, Copolar, ±30°	27 dB	27 dB	27 dB	27 dB
Sidelobe suppression, 1st upper	17 dB	17 dB	17 dB	17 dB
Vertical electrical downtilt	0-10°	0-10°	0-10°	0-8
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

	Band 5	Band 6	Band 7	Band 8
Frequency	1850 MHz ... 1990 MHz	1920 MHz ... 2170 MHz	2300 MHz ... 2400 MHz	2500 MHz ... 2690 MHz
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Polarization	±45°	±45°	±45°	±45°
VSWR	1.5	1.5	1.5	1.5

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	Band 5	Band 6	Band 7	Band 8
Gain at mid tilt	17.7 dBi	18.2 dBi	18.7 dBi	18.6 dBi
Gain over all tilts	17.7 ±0.5 dBi	18.1 ±0.6 dBi	18.6 ±0.5 dBi	18.4 ±0.8 dBi
Horizontal beamwidth (3dB)	64 ±6 °	62 ±6 °	57 ±5 °	59 ±8.5 °
Vertical beamwidth (3dB)	6.6 ±0.5 °	6.3 ±0.6 °	5.7 ±0.4 °	5.1 ±0.5 °
Cross polar Isolation	28 dB	28 dB	28 dB	28 dB
Port isolation, interband	30 dB	30 dB	30 dB	30 dB
Co/Cross polar ratio, boresight	18 dB	18 dB	18 dB	18 dB
Front to Back Ratio, Copolar, ±30°	27 dB	27 dB	27 dB	27 dB
Sidelobe suppression, 1st upper	17 dB	17 dB	17 dB	17 dB
Vertical electrical downtilt	0-8	0-8	0-8	0-8
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

Electrical remarks

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

Ports

	Port 1 to 2	Port 3 to 4
Port name	R1	Y1
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	R1	Y1
Band 1	✓	
Band 2	✓	
Band 3	✓	
Band 4		✓
Band 5		✓
Band 6		✓
Band 7		✓
Band 8		✓

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Mechanical data

Weight	23.5 kg
Dimensions	2625 mm x 295 mm x 145 mm (Height x Width x Depth)
Windload	front: 722.5 N at 150 km/h, lateral: 429.1 N at 150 km/h, Wind Speed survival: 216 km/h

Material data

Radome material	ASA
Radome colour	Gray

Environmental data

Operation temperature	-40 °C ... 70 °C
Environment (application)	Outdoor

Environmental remarks

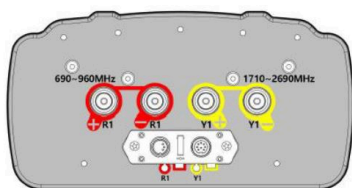
Environmental tests: ETSI 300 019-2-4

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
91121777V02	85254056	SENCITY® SC Panel

Layout

Antenna Model	Connector	CH	RET Serial
91121777V02	R1	RET 1	HSXXXXXXXXYYWW00000
91121777V02	Y1	RET 2	HSXXXXXXXXYYWW00000

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

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