

Sencity Special Communication Antenna 91121777V01

Description

4-Port Panel Antenna
 Frequency Range 698-960 / 1710-2690 MHz
 Dual Polarization (X-Pol)
 Half-power Beam Width 65°
 Adjust. Electrical Downtilt 1.5°-10° / 2°-8°
 Gain 16-19 dBi



Product Configuration

Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	698 - 806	790 - 862	824 - 894	880 - 960
VSWR	1.5	1.5	1.5	1.5
Impedance (Ohm)	50	50	50	50
Gain (dBi)	16	16.6	16.9	17.1
3dB beamwidth (h) (°)	71	68	68	67
3dB beamwidth (v) (°)	8.4	7.7	7.5	7
Composite power max (W)	400	400	400	400
Ambient temperature (°C)	50	50	50	50
Front to back ratio (dB)	22	24	26	27
Co/Crosspolar ratio (dB)	23	22	22	21
Sidelobes (v)	16	17	16	15
Port Isolation (dB)	30	30	30	30

	Band 5	Band 6	Band 7	Band 8
Frequency (MHz)	1710 - 1880	1850 - 2170	2300 - 2400	2490 - 2690
VSWR	1.5	1.5	1.5	1.5
Impedance (Ohm)	50	50	50	50
Gain (dBi)	18	18.5	18.6	19
3dB beamwidth (h) (°)	64	62	60	60
3dB beamwidth (v) (°)	5	4.7	3.9	3.5
Composite power max (W)	200	200	200	200
Ambient temperature (°C)	50	50	50	50
Front to back ratio (dB)	25	26	25	26
Co/Crosspolar ratio (dB)	15	18	16	21
Sidelobes (v)	16	16	16	17
Port Isolation (dB)	30	30	30	30

Ports

	Port 1	Port 2	Port 3	Port 4
Connector	7/16, jack (female)	7/16, jack (female)	7/16, jack (female)	7/16, jack (female)
Polarization	-45° slant	+45° slant	-45° slant	+45° slant
DC grounded	Yes	Yes	Yes	Yes

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Connections

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 7	Band 8
Port 1	X	X	X	X				
Port 2	X	X	X	X				
Port 3					X	X	X	X
Port 4					X	X	X	X

General Data

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

Max. power for the antenna 900W

Mechanical Data

Dimensions (mm) 2622 x 300 x 152 (Height x Width x Depth)
 Weight (kg) 29
 Windload frontal: 530 N at km/h , Wind speed survival: 200 km/h

Packing size (mm): 2951x322x190

Connector position: Bottom

Scope of Supply:

Panel and 2 units of 738546 clamps for 42-115 mm | 1.7-4.5 inches diameter

Environmental Data

Environmental conditions outdoor
 2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant
 WEEE 2012/19/EU no special marking needed
 REACH 1907/2006/EC compliant

Grounding:

The metal parts of the antenna including the mounting kit and the inner conductors are DC grounded.

Material:

Radome: fiberglass, light grey

Reflector screen: Aluminum.

All screws and nuts: Stainless steel or hot-dip galvanized steel.

Material Data

Radome colour grey
 Radome material Glass Reinforced Plastic (GRP)
 Back plate/base plate material Aluminium

Related Products

85010002 Clamp 110-220mm

85010003 Clamp 210-380mm

85010009 Downtilt Kit

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

Related Documents

Security instruction DOC-0000278984

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Additional Information

