

## SENCITY® Special Communication Antenna 91121959 xxxPRELIMINARYxxx

### Description

4-Port Panel Antenna  
Dual Band  
Frequency Range 380-470 / 698-791  
Dual Polarization (X-Pol)  
Half-power Beam Width 90° / 65°  
Fixed Electrical DT 2°  
Gain 13 / 16 dBi



### Product Configuration

### Technical Data

#### Electrical Data

	Band 1	Band 2	Band 3
Frequency (MHz)	380 - 430	450 - 470	698 - 791
VSWR	1.5	1.5	1.5
Impedance (Ohm)	50	50	50
Gain (dBi)	13	13	16
3dB beamwidth (h) (°)	89	89	67
3dB beamwidth (v) (°)	14	14	8.7
Front to back ratio (dB)	20	20	25
Vertical electrical tilt (°)	2	2	2
Port isolation	25	22	25
Composite Power max (W)	200	200	250
Ambient temperature (°C)	25	25	25

#### Ports

	Port 1	Port 2	Port 3	Port 4
Connector	4.3-10, jack (female)	4.3-10, jack (female)	4.3-10, jack (female)	4.3-10, jack (female)
Polarization	-45°	+45°	-45°	+45°
DC grounded	Yes	Yes	Yes	Yes

#### Connections

	Band 1	Band 2	Band 3
Port 1	X	X	
Port 2	X	X	
Port 2			X
Port 2			X

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### General Data

Intermodulation IM3 dBc:  
380-470MHz < -150 (2 x 43 dBm carrier)  
698-791MHz < -150 (2 x 43 dBm carrier)

### Mechanical Data

Dimensions (mm) 2741 x 327 x 249 (Height x Width x Depth)  
Weight (kg) 28.5  
Windload frontal: 890 N at 150 km/h, lateral:980 N at 150 km/h , Wind speed survival: 240 km/h  
Packing size (mm): 2830x360x275  
4 x Connector position: Bottom

### Environmental Data

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

The grey fiberglass radomes of these antennas are very stable and extraordinarily stiff. They are resistant to ultraviolet radiation and can also be painted to match their surroundings.  
Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

### Material Data

Radome colour Grey  
Radome material Fiberglass  
Reflector screen Aluminum  
All screws and nuts Stainless steel.

### Related Products

(Order separately)

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

### Related Documents

Painting instruction DOC-0000256180  
Security instruction DOC-0000278984

### Additional Information

For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit. Wall mounting: No additional mounting kit is needed.

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