

## Sencity Special Communication Antenna 98121116

### Description

2-Port Vehicle Antenna  
 Frequency Band 380-430 MHz and GPS  
 The antenna can be operated in both frequency ranges simultaneously  
 Low profile antenna in fiberglass radome  
 Gain dB 0 (ref. to the quarter-wave antenna)



### Product Configuration

#### Technical Data

##### Electrical Data

	Band 1	Band 2
Frequency (MHz)	380 - 430	1575 - 1576
VSWR	1.7	1.5
Impedance (Ohm)	50	50
Composite power max (W)	100	
Ambient temperature (°C)	50	

##### Ports

	Port 1	Port 2
Connector	N, jack (female)	TNC, plug (male)
Polarization	vertical	circular right
DC grounded	Yes	Yes

##### Connections

	Band 1	Band 2
Port 1	X	
Port 2		X

##### General Data

Requires mounting on a conductive surface with a minimum size of 1000 x 1000 mm / 39.4 x 39.4 inches using 4x M10 bolts.

##### Mechanical Data

Dimensions (mm) 150 x 145 x 85 (Height x Width x Depth)  
 Weight (kg) 0.5

Radiator: Copper and brass.

Flange: Aluminum.

Radome: Fiberglass.

All screws and nuts: Stainless steel.

Colour: Grey.

Sealing: Neoprene and silicon. Note: Don't use detergents that might harm the sealing.

This antenna, tested by an independent institute, is DC grounded to protect against lightning and high-tension lines.

Note: Keep mounting surface clear of paint for electrical contact.

## Sencity Special Communication Antenna 98121116

Packing size (mm): 150x90x190

### Environmental Data

Environmental conditions	outdoor
Operation temperature (°C)	-40 to 85
Storage temperature (°C)	-55 to 85
IP rating	IP66
Flammability rating	UL 94-HB
Solar radiation	EN 45545-2
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
WEEE 2012/19/EU	no special marking needed
REACH 1907/2006/EC	compliant

Environmental tests: EN 50155:2007

Flammability rating: DIN 5510-2, UL94 HB, EN 45545-2.

### Material Data

Radome colour	grey
Back plate/base plate colour	black
Back plate/base plate material	Aluminium

### Related Products

86010142 Low Noise Amplifier GNSS (GPS, GLONASS, BEIDOU, GALILEO)

Order separately.

### Related Documents

Mounting instruction	DOC-0000871116
Security instruction	DOC-0000278984
Outline drawing	DOU-00397265

### Additional Information

Warning: If the antenna is operated without the pre-amplifier type no. 86010142, please note the following points: 1. Due to the fact that the inner conductor of the antenna GPS is DC grounded, the input of the GPS receiver is loaded with a DC short circuit. If the GPS receiver provides a remote DC power supply, this could damage the GPS receiver. 2. At the input of the antenna GPS a level of -25 dB below the signal applied at the input of the antenna multi-band appears. Depending on the level of the signal applied at the input of the antenna multi-band, the GPS receiver may be overloaded or damaged.