

Pacifica ISM Terminal Antenna

Part No. SREI038

External Antenna

Product Specification

1. Features

- Terminal antenna for 433MHz ISM applications
- High performance dipole design
- Available in three terminal options: swivel, fly lead and fixed 90° (IPC68)

2. Description

Pacifica is constructed with an ergonomic blade design to blend well with the exterior of the device. Three versions are available including an IPC68 design for outdoor applications. To aid integration, the antenna is designed to work to various GND plane sizes or in free space.

3. Applications

- Remote monitoring
- Industrial devices
- Remote tech
- Smart meters
- Medical devices
- Home automation



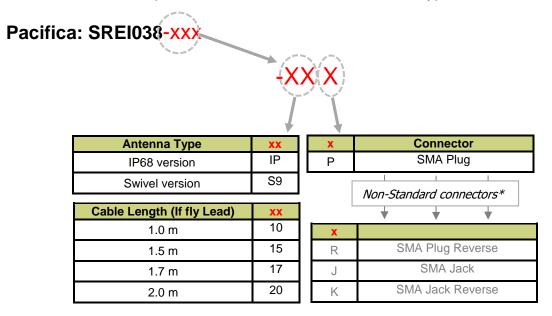






4. Part Number

Note. -xxx refers to options for antenna version, connector type and cable length:



^{*}Please contact Antenova for details on non-standard connector types

5. General Data

Product name	Pacifica
Part Number	SREI038-xxx
Frequency	432-434MHz
Polarization	Linear
Operating temperature	-20°C to +70°C
Impedance with matching	50 Ω
Weight	< 21g (Cable not included)
Dimensions (Antenna)	See dimensions on page 8>
Cable length (Fly lead only)	1.0m /2.0m *
Connection	SMA Plug (Standard)
Radome Material	PC

^{*}Please contact Antenova for details of other cable lengths

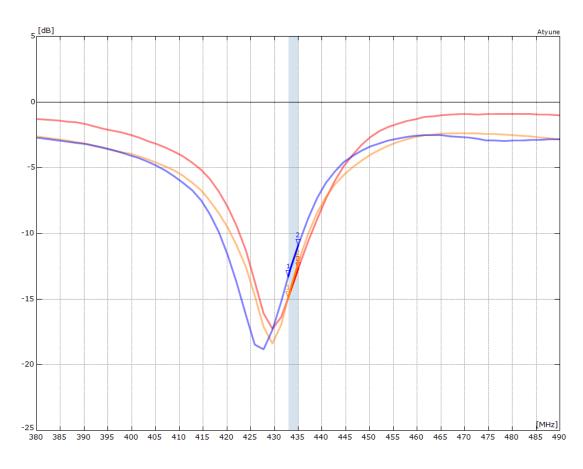
6. RF Characteristics

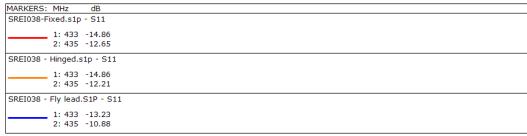
The RF characteristics are shown for each type.

	432 – 435 MHz		
	Fixed (IPC68)	Hinged	Fly Lead (1.0m)
	fundaments of		
Peak gain	-0.90dBi	-1.10dBi	-1.19dBi
Average gain	-2.60dBi	-2.90dBi	-3.00dBi
Average efficiency	>50%	>50%	>50%
Maximum return loss	<-12.0dB	<-12.0dB	<-10.70dB
Maximum VSWR	1.60:1	1.65 :1	1.80:1

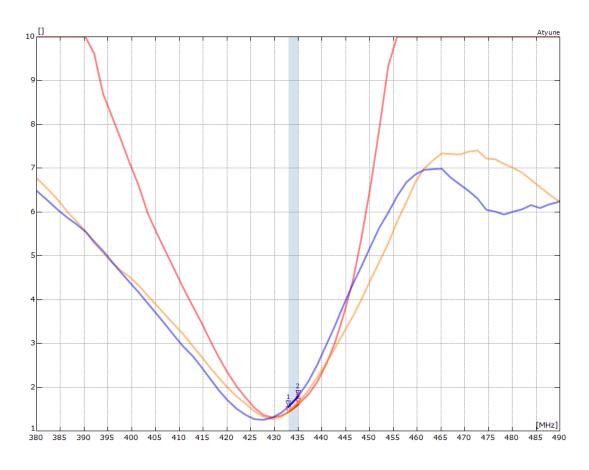
7. RF Performance

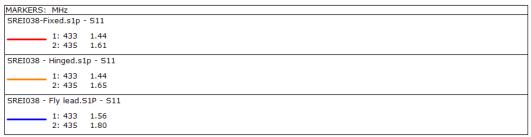
7.1 Return Loss



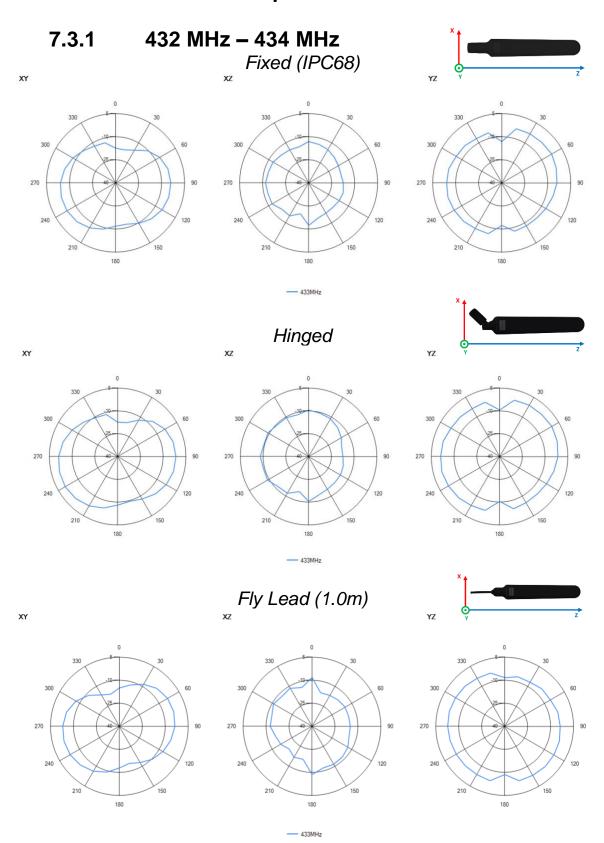


7.2 VSWR





7.3 Antenna Pattern Free Space

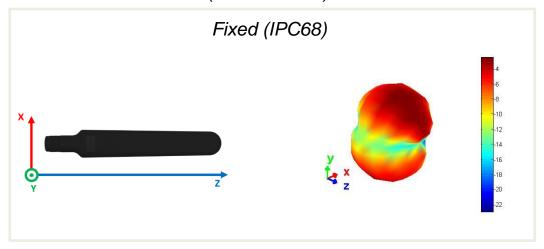


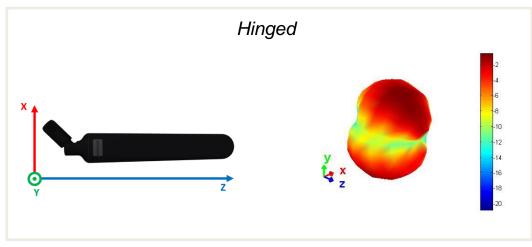
7.4 Antenna Pattern Free Space (3D)

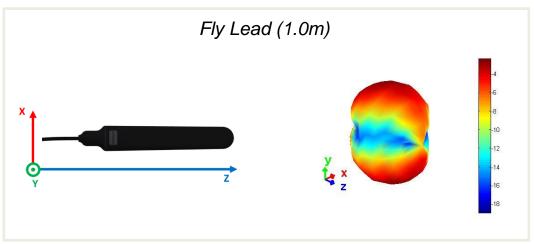
7.4.1 432 MHz – 434 MHz

3D patterns at 433MHz

Drag to rotate pattern and PCB by using Adobe Reader (Click to Activate)

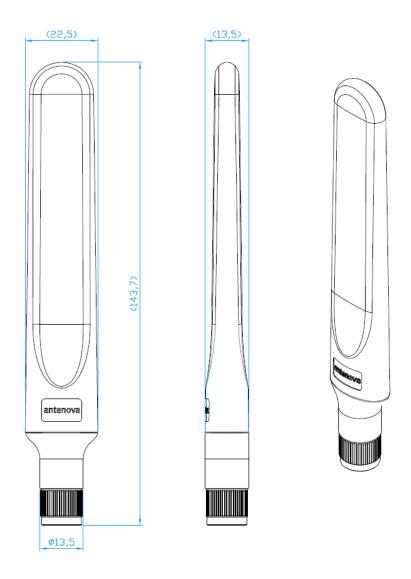






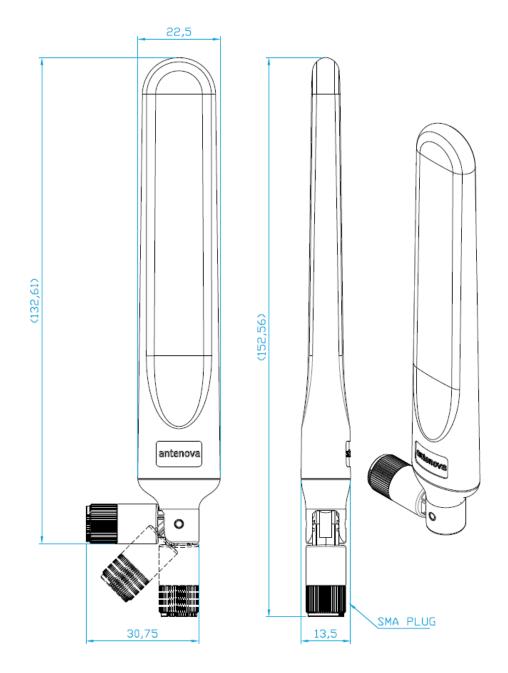
8. Antenna Dimensions

8.1 Dimensions Fixed (SREI038-IPP)



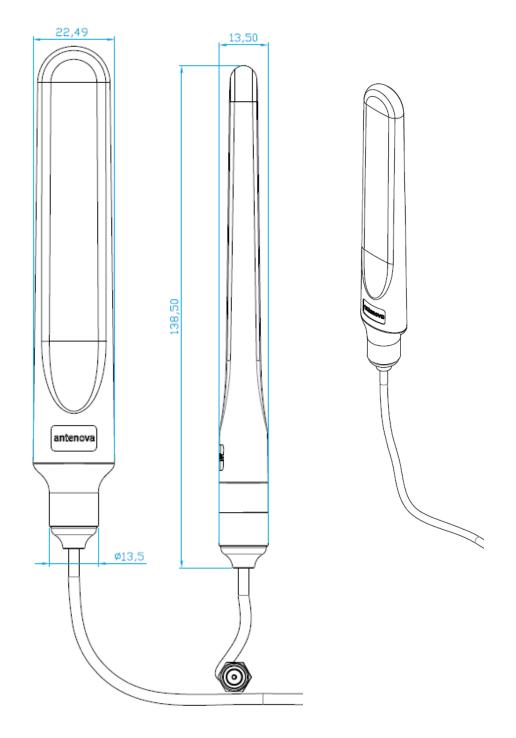
All dimensions in mm

8.2 Dimensions Hinged (SREI038-S9P)



All dimensions in mm

8.3 Dimensions Fly lead (SREI038-10P)



All dimensions in mm

9. Electrical Interface

9.1 Transmission Line

All transmission lines should be designed to have a characteristic impedance of 50Ω .

- The length of the transmission lines should be kept to a minimum.
- Any other parts of the RF system like transceivers, power amplifiers, etc, should also be designed to have an impedance of 50 Ω .

Once the material for the PCB has been chosen (PCB thickness and dielectric constant), a coplanar transmission line can easily be designed using any of the commercial software packages for transmission line design. For the chosen PCB thickness, copper thickness and substrate dielectric constant, the program will calculate the appropriate transmission line width and gaps on either side of the feed.

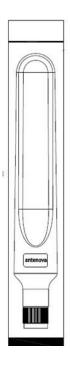
A DC blocking capacitor should be placed in line to protect the RF front end.

10. Hazardous Material Regulation Conformance

The antenna has been tested to conform to RoHS requirements. A certificate of conformance is available from Antenova M2M's website.

11. Packaging

11.1 Fixed (SREI038-IPP)



The antennas are supplied in individual polythene bags. Twenty five small bags are packed in one larger bag. The outer box contains fifty antennas.

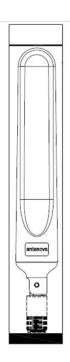
Box label





Width	Breadth	Thickness
W	B	H
355 mm	340 mm	58 mm

11.2 Hinged (SREI038-S9P)



The antennas are supplied in individual polythene bags. Twenty five small bags are packed in one larger bag. The outer box contains fifty antennas.

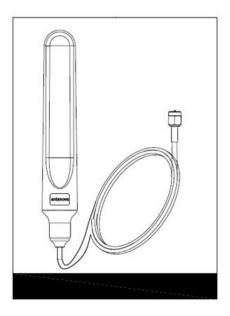
Box label





Width	Breadth	Thickness
W	B	H
355 mm	340 mm	58 mm

11.3 Fly lead (SREI038-10P)



The antennas are supplied in individual polythene bags. Twenty five small bags are packed in one larger bag. The outer box contains fifty antennas.

Box label



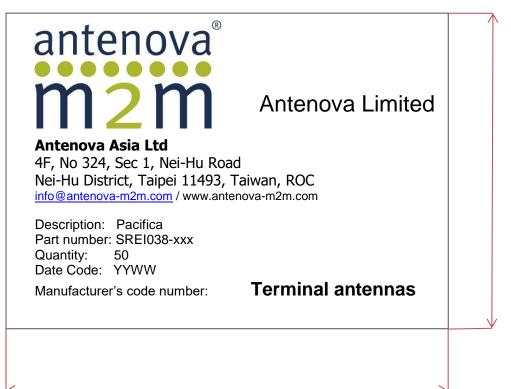


Width	Breadth	Thickness
W	B	H
355 mm	340 mm	58 mm

12. Optimal Storage Conditions

Temperature	-10°C to 40°C
Humidity	Less than 75% RH
Shelf life	18 Months
Storage place	Away from corrosive gas and direct sunlight
Packaging	Antennas should be stored in unopened sealed manufacturer's plastic packaging.

13. Label Information



60.00mm

90.00m



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