

DATASHEET

# Nitida

SRE3W084-S9R • TERMINAL  
SRE3W084-S9P



## Features

- Terminal antenna for Wi-Fi6E & WiFi7 bands: 2.4-2.5GHz, 4.9-5.9GHz & 5.925-7.125GHz
- 802.11a/b/g/j/n/ac/ax
- The 5.925-7.125GHz band for WiFi6E & WiFi7 provides 1200MHz additional bandwidth
- Terminal antenna is fitted on the outside of the product enclosure.

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## 1. Description

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Nitida is a Terminal Mount antenna for the Wi-Fi6E/WiFi7 bands. The Nitida antenna is fitted on the outside of the product enclosure with a SMA connector. The antenna covers the Wi-Fi6E & WiFi7 bands: 2.4-2.5 GHz, 4.9-5.9GHz and 5.925-7.125GHz.

## 2. Applications

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- WiFi6E/7 Routers
- WiFi6E/7 Portable Devices
- WiFi6E/7 surveillance cameras
- WiFi6E/7 dongles
- Game Consoles/Set-Top Boxes
- Network Devices

## 3. General data

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FREQUENCY	2400-2500MHz 4900-5900MHz 5925-7125MHz
POLARIZATION	Linear
OPERATING TEMPERATURE	-20°C to +65°C
ENVIRONMENTAL CONDITION TEST	ISO16750-4 5.1.1./5.1.2
IMPEDANCE WITH MATCHING	50 Ω
WEIGHT	15g
ANTENNA TYPE	SMA Plug Reverse (Standard)
DIMENSIONS	123.7 x 12.7 x 12.1 (mm3)
RADOME MATERIAL	PC+PBT

## 4. Part number

NITIDA  
SRE3W084-S9R  
SRE3W084-S9P

	Connector
R	SMA Plug Reverse (Standard)
P	SMA Plug



\*Please contact Antenova for details on non-standard connector types

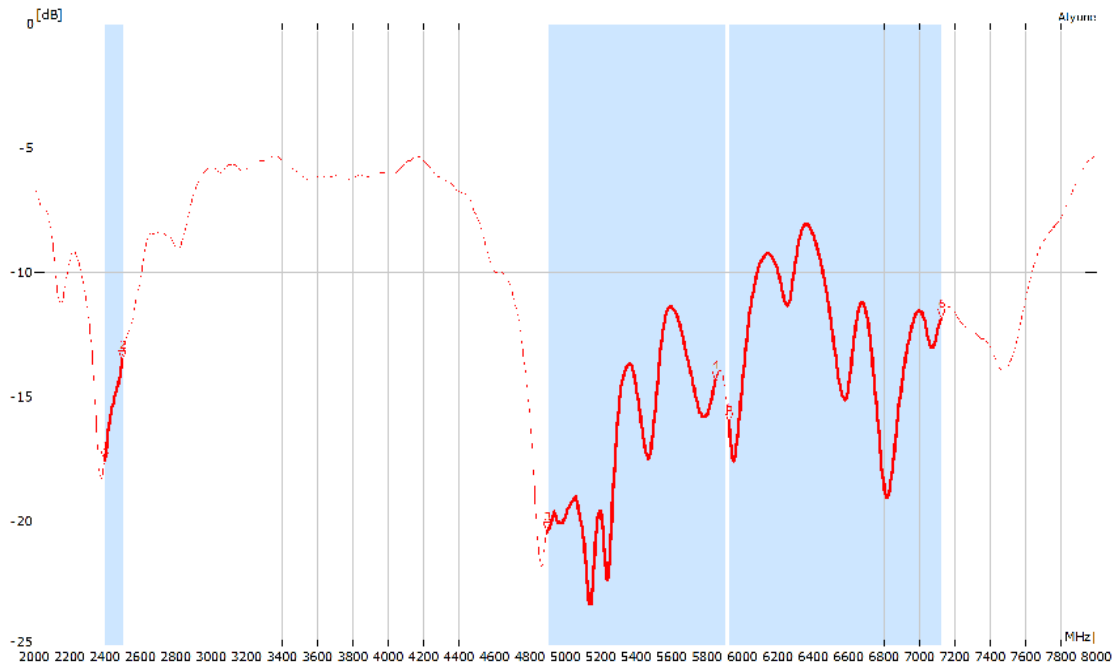
## 5. RF characteristics

All data measured on SRE3W084 in free space

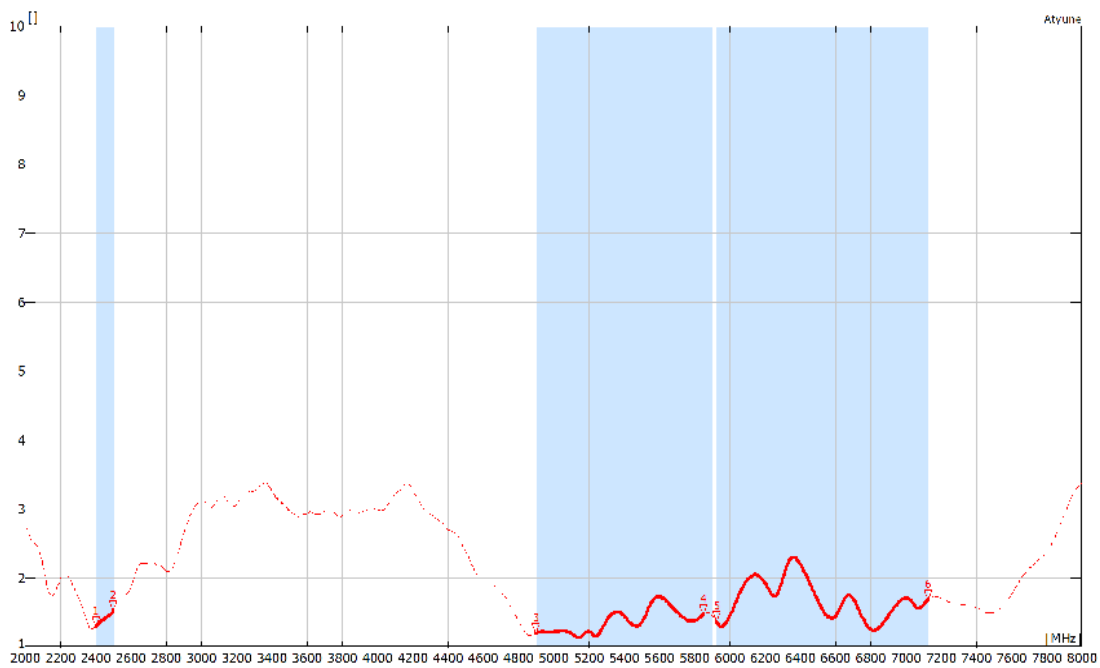
FREQUENCY	2400 - 2500 MHZ	4900 - 5900 MHZ	5925 - 7125 MHZ
PEAK GAIN	3.1dBi	5.2dBi	5.0dBi
AVERAGE GAIN (LINEAR)	-1.5dB	-1.9dB	-1.7dB
AVERAGE EFFICIENCY	70%	60%	55%
MAXIMUM RETURN LOSS	-13dB	-14dB	-8dB
MAXIMUM VSWR	1.6:1	1.8:1	2.3:1

## 6. RF performance

### 6.1. Return loss

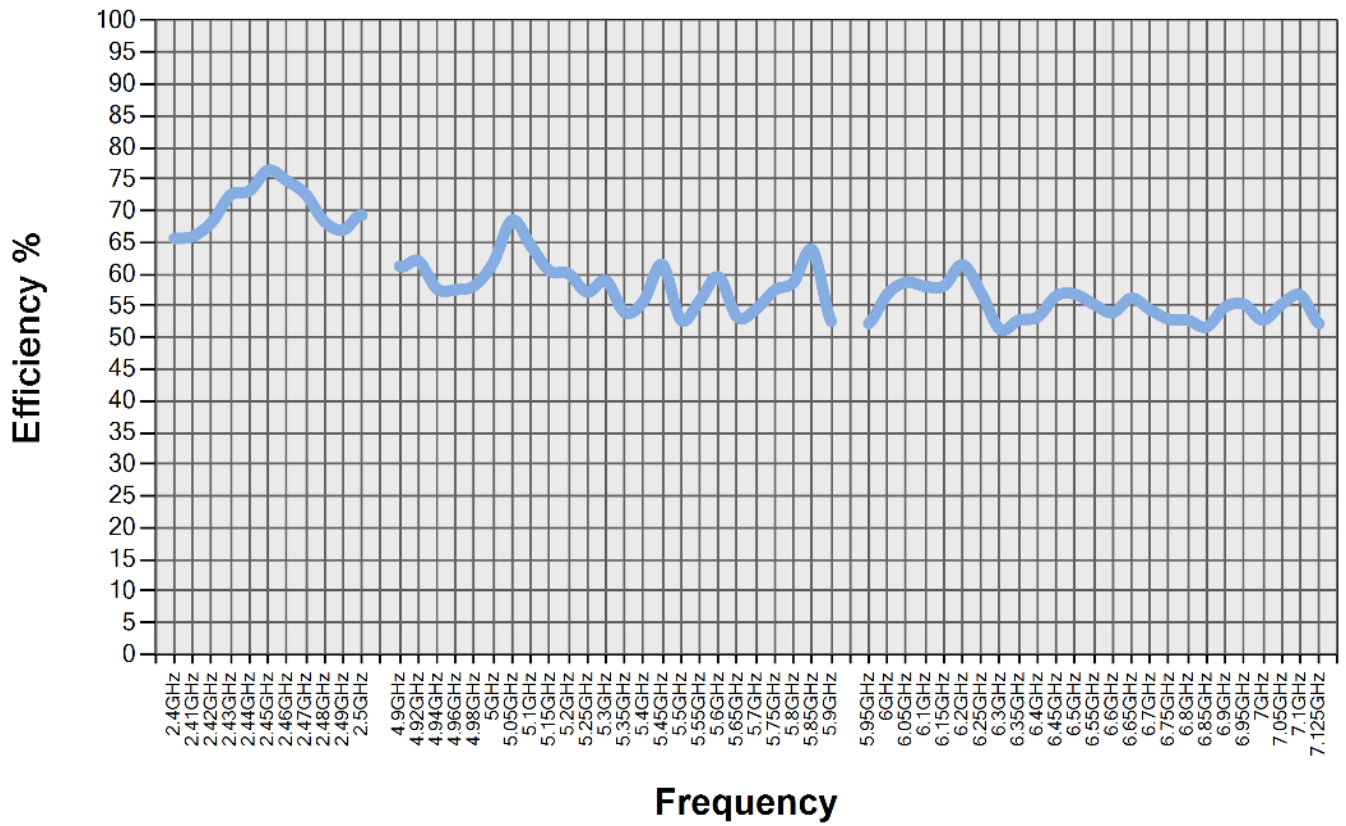


### 6.2. VSWR



All data measured on SRE3W084 in free space

### 6.3. Efficiency

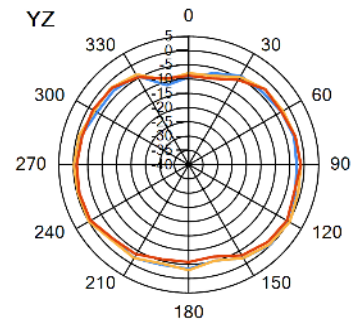
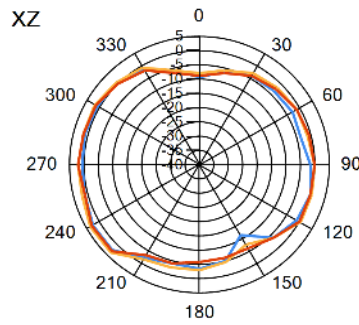
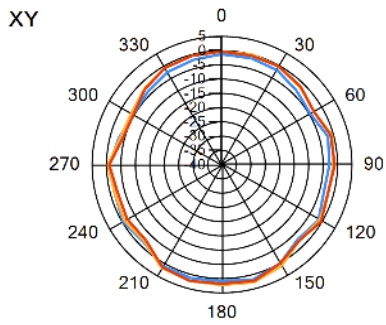
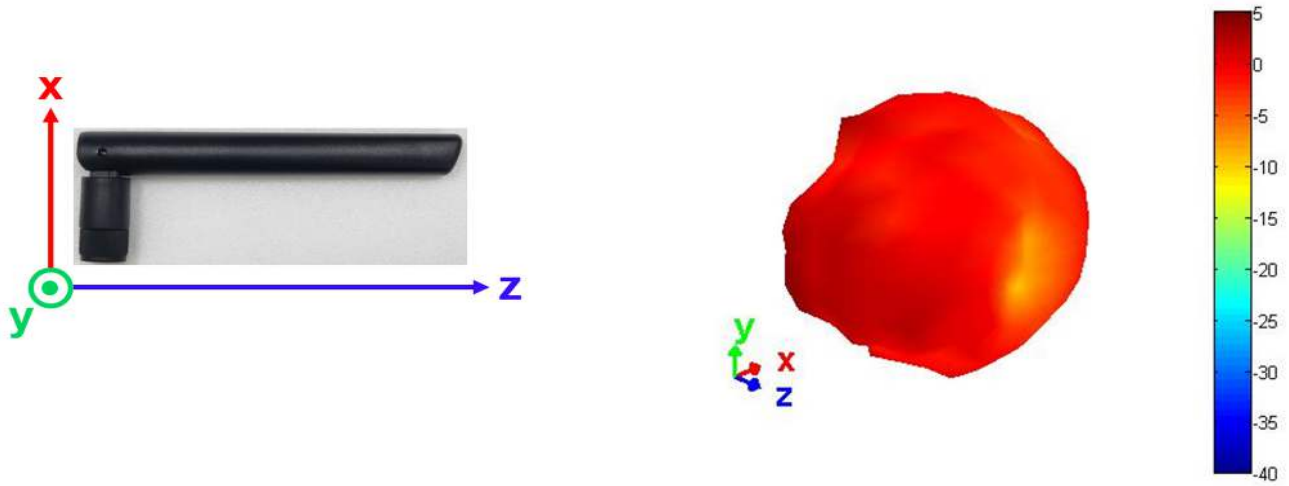


All data measured on SRE3W084 in free space

### 6.4. Antenna Pattern Free Space

#### 6.4.1. 2400MHz ~ 2500MHz

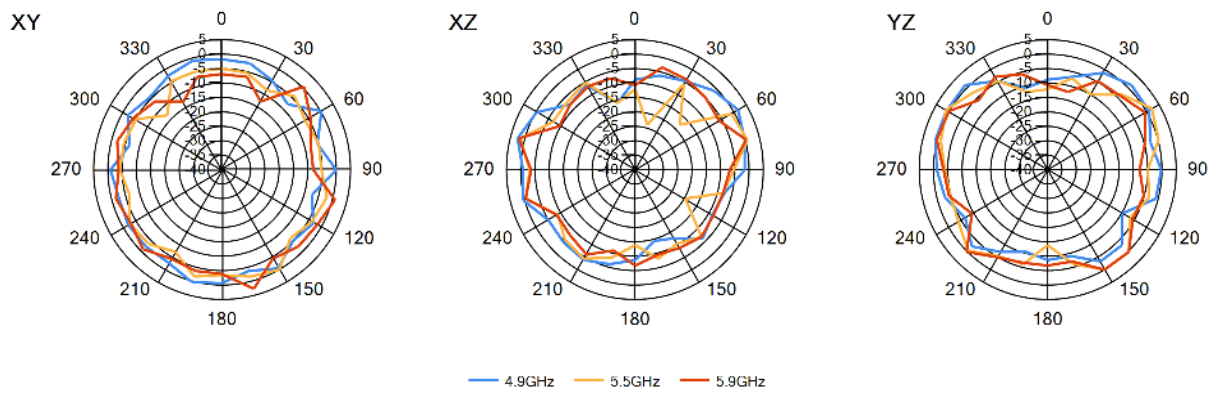
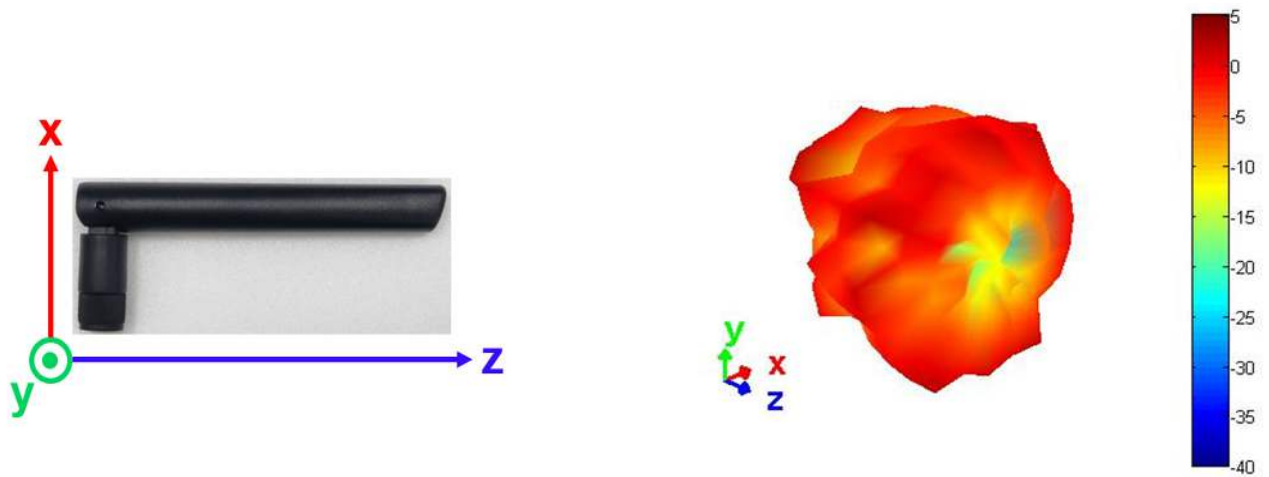
3D pattern at 2450MHz



— 2.4GHz — 2.45GHz — 2.5GHz

6.4.2. 4900MHz ~ 5900MHz

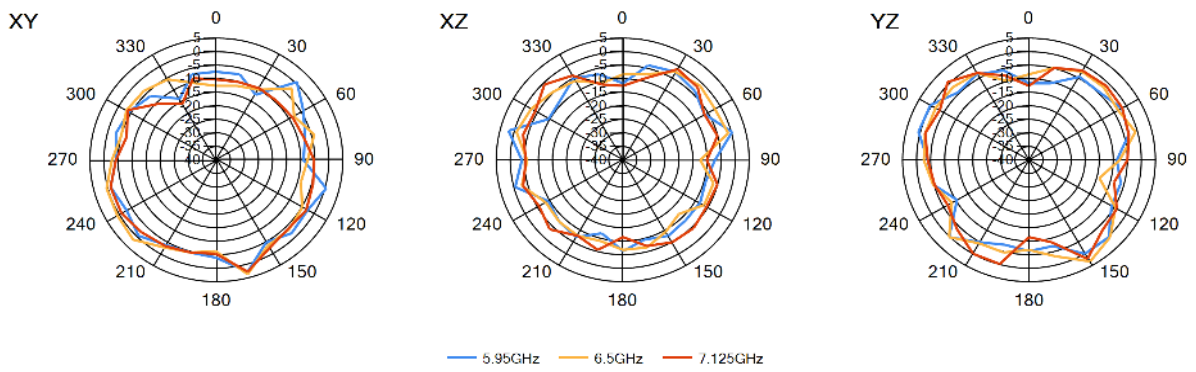
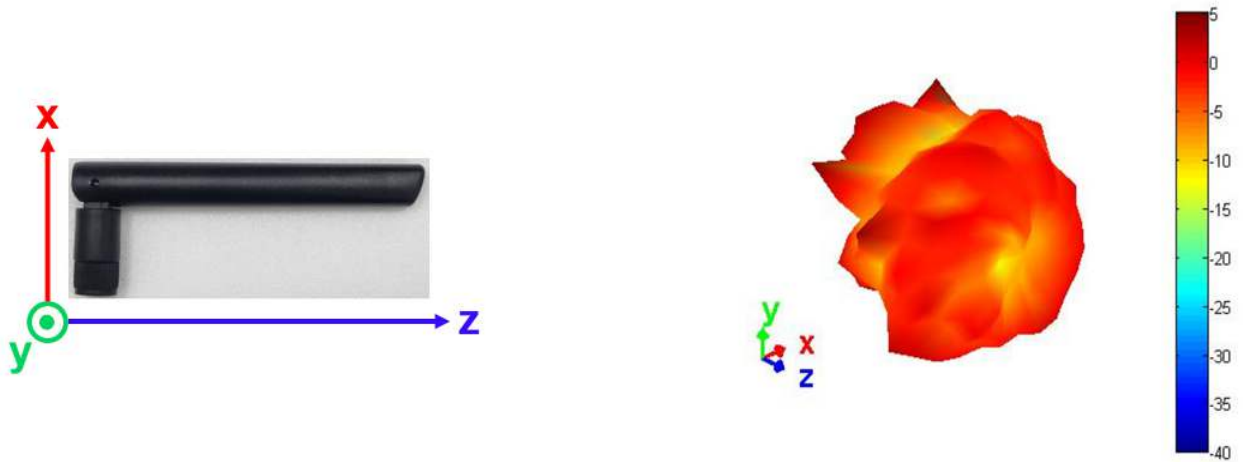
3D pattern at 5500MHz





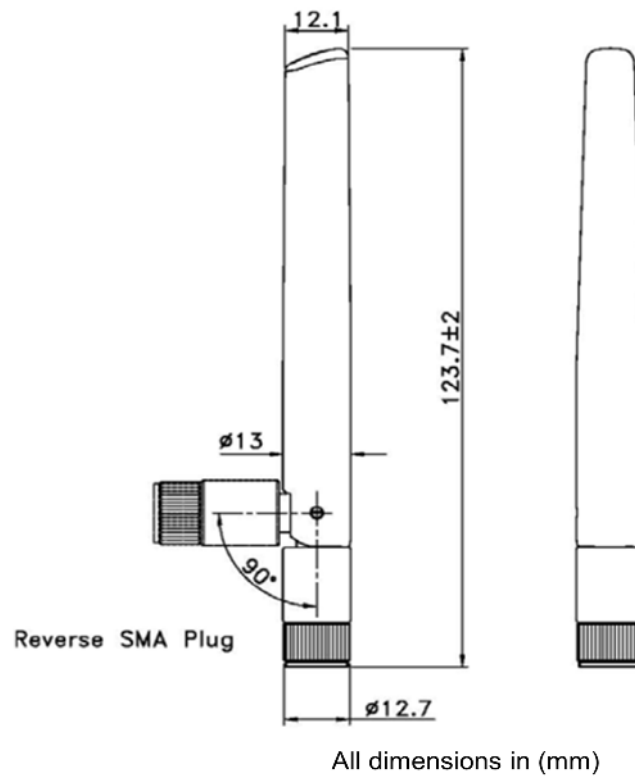
6.4.3. 5925MHz ~ 7125MHz

3D pattern at 6500MHz



## 7. Antenna dimensions

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## 8. Hazardous Material Regulation Conformance

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The antenna has been tested to conform to RoHS requirements.

A certificate of conformance is available from Antenova's website.

## 9. Packaging

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The antennas are stored within a plastic bag

One piece in small bag

50pcs in one larger plastic bag with label



### Box Dimension and label

The outer box contains 500 antennas with label



WIDTH (W)	BREADTH (B)	HEIGHT (H)
320mm	250mm	230mm

## 10. Optimal Storage conditions

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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.

Note: The shelf life of the antenna is 18 months, provided the bag of 50 pieces remains factory- sealed.

# 11. Label Information

antenna® **Antenova Limited**

www.antenova.com

Description: Nitida Swivel antenna  
Part Number: SRE3W084-S9R  
Qty: 50 pcs  
Date Code: YYWW



Terminal Antennas

antenna® **Antenova Limited**

www.antenova.com

Description: Nitida Swivel antenna  
Part Number: SRE3W084-S9R  
Qty: 500 pcs  
Date Code: YYWW



Terminal Antennas

## Quality statements

Antenova’s products conform to REACH and RoHS legislation. For our statements regarding these and other quality standards, please see [antenova.com](http://antenova.com).



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## Datasheet version

1.01 released Nov 11 2022

# Antenna design, integration and test resources

Product designers – the details contained in this datasheet will help you to complete your embedded antenna design. Please follow our technical advice carefully to obtain optimum antenna performance.

We aim to support our customers to create high performance wireless products. You will find a wealth of design resources, calculators and case studies to aid your design on our website.

Antenova's design laboratories are equipped with the latest antenna design tools and test chambers. We provide antenna design, test and technical integration services to help you complete your design and obtain the required certifications.

If you cannot find the antenna you require in our product range, please contact us to discuss creating a custom antenna to meet your exact requirements.

Share knowledge with RF experts around the world.

**ask.antenova** is a global forum for designers and engineers working with wireless technology.

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Order antenna samples and evaluation boards, and read our antenna resources

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Request a volume quotation for antennas:

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