



**Novocomms
GNSS
Antenna
Catalogue**

2023

Table of Content.

About Us	03
GNSS Technology Overview	04
Our Corporate Capabilities	05
Internal Flexible PCB Antenna	06
Internal Ceramic Patch Antenna	07
External GNSS Antenna	08
External Multi-Port Antenna	09
Contact Us	11



ABOUT US

At Novocomms, we pride ourselves on being at the forefront of the GNSS technology revolution. With our innovative solutions and unwavering commitment to innovation, we provide you with the most accurate, reliable, and high-performance positioning, navigation, and timing solutions available in the market.

This catalogue presents our comprehensive range of GNSS antennas designed to meet the diverse needs of industries spanning agriculture, transportation, surveying, and more. Each product in our portfolio has been meticulously crafted and rigorously tested to ensure exceptional quality and performance.



GNSS Technology Overview

GNSS technology has revolutionized the way we navigate, track, and interact with our environment. Global Navigation Satellite Systems (GNSS) leverage a network of satellites to provide accurate positioning, timing, and navigation information to users worldwide.

In today's fast-paced world, GNSS technology plays a crucial role in numerous industries. From guiding autonomous vehicles to optimizing precision agriculture practices and enabling efficient fleet management, the applications are endless. Accurate positioning, precise timing, and reliable navigation are the backbone of operations across sectors like logistics, geodetic surveying, environmental monitoring, and more.

At Novocomms, we understand the immense potential of GNSS technology and its transformative impact on industries. That is why we have dedicated our expertise and resources to developing innovative solutions that harness the power of satellite navigation to enhance efficiency, productivity, and safety.

Our Capabilities

Novocomms is a trusted leader in antenna design and manufacturing in the GNSS technology domain. We are renowned for our unwavering commitment to excellence and customer satisfaction. With years of experience and a team of brilliant minds, we have established ourselves as a driving force in the industry.

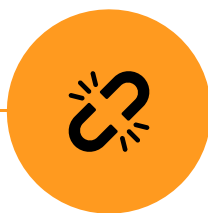
Our corporate capabilities set us apart from the competition. At Novocomms, we combine a passion for innovation with a relentless pursuit of quality. Our research and development team continuously pushes boundaries to create solutions that are at the forefront of technological advancements. We invest in the latest tools, methodologies, and expertise to deliver products that exceed expectations.

Our capabilities do not end with technical prowess. We value our partnerships and collaborations, fostering strong relationships with industry experts, customers, and stakeholders. By understanding the unique challenges faced by different industries, we tailor our solutions to meet specific needs, ensuring maximum impact and value for our clients.

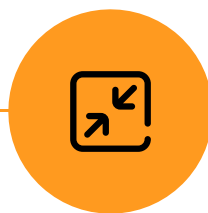
Novocomms takes pride in our proven track record of successful projects and satisfied customers. We stand by our products, providing comprehensive support and exceptional service throughout the entire journey.



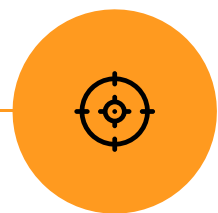
WIDE-BAND



HIGH ISOLATION



**COMPACT FORM
FACTOR**



HIGH ACCURACY



NOVOCOMMS

Internal Flexible PCB Antenna



FREQUENCY (MHz)

1550-1620,
2400-2500,
5150-5850

EFFICIENCY %

> 35,
> 45,
> 50



TECHNOLOGY

Dual-band Wifi; GNSS

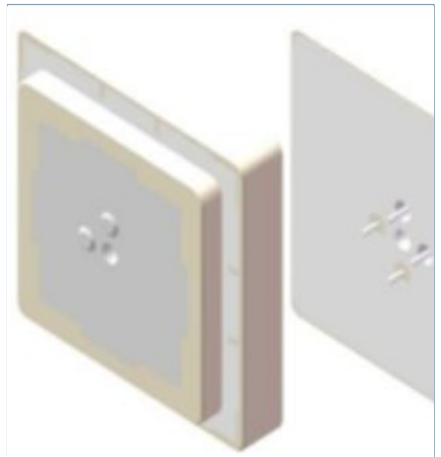
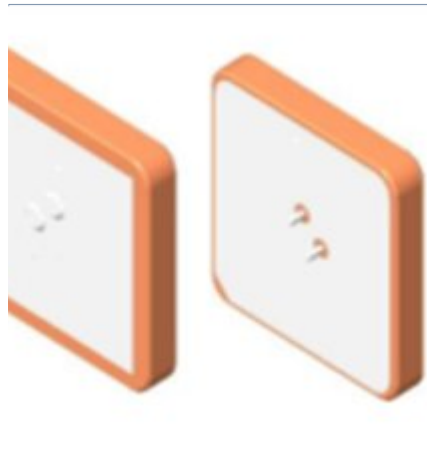
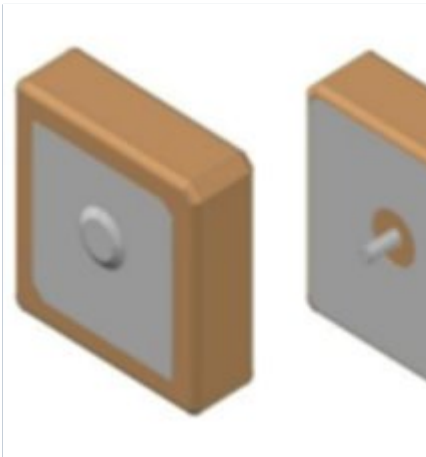
PEAK GAIN (dBi)

0.55,
1.85,
4.27

DIMENSION (mm)

42.5*9.5*0.15

Internal Ceramic GNSS Patch Antenna



Technology GLONAS L1
Frequency (MHz) 1602
Peak Gain (dBi) -12
AR @ RHCP (dB) 3
Dimension 9*9*4
Port Number 1

Technology GPS L1/Beidou B1
Frequency (MHz) 1575
Peak Gain (dBi) 2.5
AR @ RHCP (dB) ≤ 2
Dimension 25*25*6
Port Number 2

Technology GPS(L1/L5), Beidou
Frequency (MHz) 1176/1575
Peak Gain (dBi) 4.5
AR @ RHCP (dB) ≤ 2
Dimension 50*50*12
Port Number 4

External GNSS Antenna



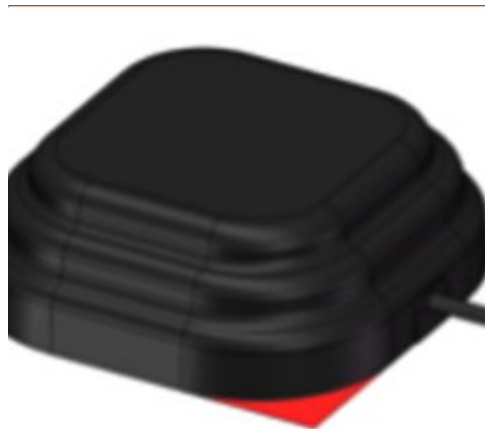
Technology: GPS L1, Beidou B1
 Frequency (MHz): 1575
 Peak Gain (dBi): 30
 AR @ RHCP (dB): 3
 Dimension: 49.4*39.3*15



Technology: GPS L1, Beidou B1
 Frequency (MHz): 1575
 Peak Gain (dBi): 30
 AR @ RHCP (dB): 3
 Dimension: \varnothing 46.6*14.5



Technology: GPS L1/L2/L5,
 Beidou B1/B2/B3
 Frequency (MHz): 1175; 1226;
 1575
 Peak Gain (dBi): 43
 AR @ RHCP (dB): 3
 Dimension: \varnothing 96*128.5



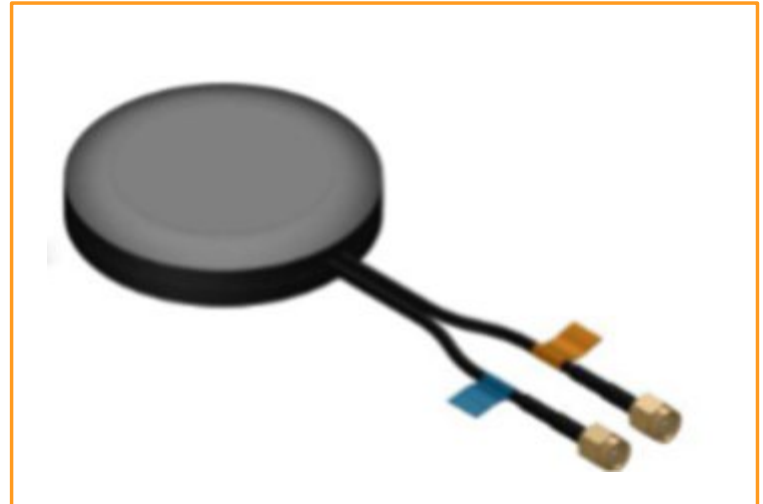
Technology: GPS L1/L2/L5,
 Beidou B1/B2/B3
 Frequency (MHz): 1175; 1226;
 1575
 Peak Gain (dBi): 31
 AR @ RHCP (dB): 3
 Dimension: 71*70.5*25



External Multi-Port Antenna

Technology	Frequency (MHz)	Peak Gain (dBi)
4G LTE; GPS L1/Beidou B1	698-960, 1710-2690; 1575	2; 30 included LNA

Port Number	Isolation (dB)	Dimension
2 (1*LTE+1*GNSS)	<-10	φ71.5*14.5



Technology	Frequency (MHz)	Peak Gain (dBi)
4G LTE 2*2MIMO; GPS L1/Beidou B1	(698-960, 1710-2690)*2; 1575	2; 30 included LNA

Port Number	Isolation	Dimension
3 (1*LTE Main+1*LTE Aux+1*GNSS)	<-10	φ81.3*29.6



Technology	Frequency (MHz)	Peak Gain (dBi)
5G NR 2*2MIMO; GPS L1/Beidou B1; Wi-Fi 2*2 MIMO	(698-960,1710-2690, 2900-3800)*2; 1575; (2450,5550)*2	4; 30 included LNA

Port Number	Isolation	Dimension
5 (4*LTE+1*Wi-Fi)	<-10	190*182





Thank you for joining us on this exploration of Novocomms' GNSS Antenna solutions. We hope this catalogue has given you valuable insights into the power and potential of our products to transform your business.

At Novocomms, we are passionate about driving innovation and delivering solutions that make a real difference. Our commitment to exceptional quality, unmatched performance, and customer satisfaction is unwavering. We are here to support you at every step, providing not just innovative technology but also the expertise and guidance to help you leverage the full potential of your GNSS projects.

Contact us If you are ready to unlock new opportunities, streamline operations, and achieve unparalleled accuracy. Our team is eager to discuss your unique requirements, demonstrate our products, and chart a path to success together.



NOVOCOMMS

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