



PRODUCTS & SERVICES **21** **CATALOG** **22**

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GNSS/GPS (L1/L2/L5)
GLONASS/ BEIDOU/ Galileo
5G/4G/LTE

Wi-Fi/ Bluetooth/ ZigBee/ ISM
LoRa/Sigfox/NB-IoT/ISM
SATCOM

Combination
Accessories
Antennas services

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Controlling wireless networks and energy distribution in the spatial domain on the RF level is the final frontier of wireless communications.

Maxtena provides advanced beamforming antennas, RF and Cybersecurity products & solutions for terrestrial and satellite-based networks. Our Dynamic Aperture Technology™ (DAT) and CybeRF technologies empower our customers to develop unparalleled solutions for GNSS, SATCOM, LTE, WIFI, IOT, OT, Military and terrestrial applications which are used on Land, Air or Sea.

We use proprietary and patented technologies to design extremely lightweight and high-performance RF antennas and systems for a variety of communications spectrums.

Headquartered in Washington DC Metro, and having additional offices in North America and Europe, Maxtena is at the forefront of wireless innovation.



**We are Inventing
the Future of
Wireless Technology**



Commitment to Innovation

Our management team has a proven record of delivering innovative products to the marketplace. We have the ability to define a market need, research and develop a product, set up production, and execute on production.

Commitment to Our Customers and Partners

We believe that each product we deliver and service we render should not only meet, but exceed the expectation of our customer. We have a strong record of maintaining existing business relationships in the government and commercial sectors and protecting critical intellectual property through patents and trade secrets.



Commitment to Our Team

We pride ourselves on building a diverse workforce with exciting opportunities and exceptional benefits for our team members. Our core values – creative, involved, exceptional, and innovative – are the foundation of our collaborative and inventive work environment. We believe that by promoting teamwork and cooperation we will be able to find continued success and promote professional growth.



Dear Valued Customer,

MAXTENA Incorporated is the recognized global leader in developing and producing innovative wireless solutions. We are engaged in designing, manufacturing and marketing a comprehensive range of embedded, external and custom Advanced RF antennas & systems for GNSS, ISM, SATCOM, MSS and 5G LTE applications.

Furthermore, Maxtena beamforming solutions combine software define radios with artificial intelligence and complex electromagnetics to create cutting edge products and solutions for our customers. Maxtena commitment to innovation is unprecedented. Our technologies power some of today's most cutting-edge wireless solutions.

Maxtena devices enable a range of products from satellite phones to Unmanned Aerial Vehicles. These solutions allow our customers to seamlessly access data from anywhere in the world. Here we have taken an approach where the next advances in wireless communications will come from looking at fundamental problems from the electromagnetics perspective. This new perspective lends itself to novel technologies which we hope will drive the new Internet infrastructure with smaller and higher efficiency devices, enable higher data rates and combat interference.

With our leading customer support, design capabilities, and highest quality manufacturing we work passionately to exceed your expectations.

With warm regards,

*Stani Licul
Chief Executive Officer Maxtena Inc.*

Why Maxtena is your antenna supplier of choice?

 **Patented Technology**

 **REACH**

 **Certifications**

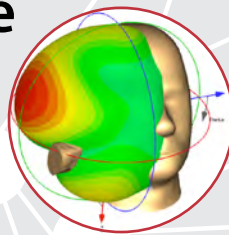
 **Quality assurance**

 **RoHs compliance**

 **ISO 9001**



Manufacturing
cutting-edge
antenna solutions for
the connected world



State-of-the art
design and test
Chambers facilities



Support off-the-shelf
orders & fully customized
integrations



Large Portfolio of
External & Embedded
antennas

Helix Antennas



We offer a unique set of patented helix antennas for satellite communications. Our advanced helical antennas operate across several satellite networks from GNSS, Iridium, Inmarsat, Thuraya and Globalstar to C-band, S-band and X-band frequencies. We also offer several antennas that work across multiple networks. The antennas are available in different sizes and form factors. We produce both external antennas that come in a range of rugged housings, as well as embedded antennas. Our embedded antennas are custom built to fit perfectly in your device's own housing. We have developed countless first-to market helix innovations, and our antennas are currently being used in multiple major SATCOM & IOT Applications, Tracking and Navigation Devices and Military Communications Equipment.

Microstrip Antennas



We offer a large portfolio of both active and passive advanced conformal wave microstrip antennas. The antennas are available in several different sizes and configurations depending on customer requirements. This included externally mounted and or embedded antenna solutions. The active antennas can be customized with different filtering, LNA, cable lengths and connectors upon request. All of our microstrip antennas offer high performance with a very low profile. The antennas are ideal for various professional IOT applications. The compact size and lightweight features of the microstrip antennas make them perfect for various commercial and industrial uses. By utilizing various RF and material advances, Maxtena is the leader in conformal antenna solutions used for IOT, Automotive and Autonomous applications.

Iridium solutions



From maritime and military, to mining and UAV's and IOT, Maxtena offers Iridium technology to empower OEMs, customers, and end users across various industries to manage their heavy equipment fleets more efficiently — optimizing overall performance, improving safety for equipment and crews, and remote communication and beyond line of sight control and command. The Iridium antennas and modems are available in several different sizes depending on customer requirements. We produce both external antennas that come in a range of rugged housings, as well as embedded antennas. These antennas can be customized with different cable lengths and connectors upon request. Iridium modems are provided for embedded designs along with complete plug and play products with cloud connected services. We provide also complete Iridium IOT solutions including trackers and value add products. Iridium provides real time access to high-value data letting you or your customers take actions to prevent potential failures and avoid costly consequences.



Cellular /Wifi/4G Antennas



We offer a wide selection of antennas across a broad range of frequencies between 700- 960 MHz, 1710-2170 MHz and 2500-2700 MHz, dual-band 2.4GHz/5GHz, cellular, and Bluetooth antennas. It enhances connectivity for multiple devices in nearly any location. Our antennas are purpose-built to provide compact, high gain, and a constant worldwide connectivity. The antennas are available in several different sizes depending on customer requirements. We produce both external antennas that come in a range of rugged housings, as well as embedded antennas. These antennas can be customized with different cable lengths and connectors upon request. We have developed countless high-performance antennas, and they are currently being used in multiple IOT devices (Wearables, Routers, Smart Home, UAV/Drone, and Connected Vehicles).

5G Antennas



We offer high performing 5G antennas that provide coverage for all lower and mid 5G bands along with custom solutions for mm wave frequencies. By offering the most comprehensive portfolio of external antennas with different mounting options, omnidirectional radiation patterns for easy integration in wireless communication devices, we are the leaders of 5G antenna solutions. Our 5G antennas are great for telematics systems, remote surveillance, asset tracking and any IOT system applications. All of our 5G antenna solutions are fully customizable and optimized for the customers system.

LTE & MIMO Antennas



Our advanced patented LTE & MIMO antennas are available in rugged, low profile form factors. We utilize the latest advances in antenna designs and bring to market the best performing LTE/MIMO antennas in the world. Our antennas are optimized for outstanding isolation specifications and performances. This allows our customers to have the best and most innovative solutions on the market. We have developed cutting edge MIMO antennas and our antennas are currently being used in multiple major commercial transport, HD video monitoring, buses, and trains.

SigFox/LoRA/ISM Antennas



We offer a wide selection of SigFox/LoRA/ISM antennas that operate within the 902-928 MHz, 2.4 GHz and 5.7-5.8 bands and include a wide variety of indoor and outdoor antennas. ISM antennas are ideal for various installations for IOT, smart metering, digital signage, and industrial monitoring. The antennas are available in several different sizes depending on customer requirements. These antennas can be customized with various cable lengths and connectors upon request. All of our external antennas are IP67 rate which allow for the most environmentally challenging installations.



Rail & Transportation Antennas



Our patented & fully EN 50155 Certified Rail 4x4 MIMO LTE antennas are the most advanced solutions available. They ensure the most optimal data aggregation connectivity by providing outstanding RF performances.

As technology capabilities increase, the world is becoming more connected and so does the demand for a smart, and fastest growing transportation market. Maxtena is the industry leader in developing new antenna technologies for vehicle – to – vehicle (V2V) and vehicle – to – anything (V2X) applications. We have developed cutting edge dedicated short-range communications (DSRC) antennas which are vehicle and DSRC transponder agnostic. All DSRC antennas are available for external and internal automotive applications. At Maxtena, we offers the most advanced train and rail antennas in rugged, low profile form factors.

GNSS Timing Antennas



Our GNSS Timing antennas are state of the art designed and developed rugged solutions which are IP69K rated and versatile for any installation necessary. The antennas are fully customizable and feature high gain LNA's along with superb filtering capabilities.

Precise time is crucial to a variety of economic activities around the world. Communication systems, electrical power grids, and financial networks all rely on precision timing for synchronization and operational efficiency. GNSS enables users to determine the time to within 100 billionths of a second, without the cost of owning and operating atomic clocks. Maxtena has the latest antenna technology and products for professional precision timing applications.

Accessories



Maxtena offers a high variety of antenna accessories including mounting brackets, RF Cable, cable sub assemblies, pins, connectors and value added services. Custom solutions are available upon request. Our mounting applications: Magnet, wall, screw, pole, and adhesive mounting antennas.



Industrial IOT

Our antennas are designed for reliable performance in high precision, heavy-duty GNSS tracking applications and various IOT communications. They support a diverse range of applications such as precision agriculture, IOT, Smart City, Asset management, asset tracking, mobile computing devices and mining equipment.

Military

Our ruggedized antennas can be integrated externally or internally with Military/ Defense applications including Military Radios, UAVs, soldier worn communication gear and satellite phones and radios. They can support forces on the ground, in the air, or on the sea.

Autonomous & Automotive

Drones, Robotics, Autonomous Vehicles are some of the many products you can find that are using our antenna solutions. Our compact antennas provide OEMs with fewer mechanical constraints to compensate for when designing cutting-edge equipment.



The antenna Market opportunities is segmented by type (helical antenna, patch antenna, MIMO Antenna, 5G antenna, and DSRC antenna), by application (GNSS, LTE-Wifi, Military, Maritime, and transportation), by product (Drone, trackers, automotive devices, and DAS applications), and also by geography.



“Our mission is to design and manufacture cutting-edge antenna solutions for the connected world. We’ll support off-the-shelf orders as well as fully customized integrations.”



Basics for choosing the applicable antenna

Technology

- Frequency bands(WIFI, GPS, ...)
- Technology (helix, patch, conformal antennas, Smart antennas, MIMO, UWB, Connected Array, Aperture antenna...)
- Features (Antenna gain, directivity, VSWR, bandwidth, Impedance, axial ratio ...)

Applications

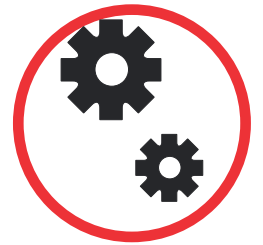
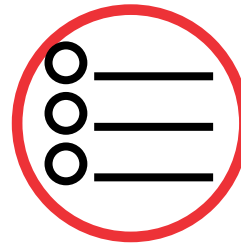
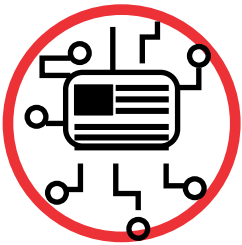
- Mounting options (Screw mount, Magnet Mount, Adhesive mount ...)
- Connector Type (SMA, TNC, U. FL ...)
- Dimensions
- Certifications

Requirements

- Polarization
- Radiation patterns
- High spectral efficiency & high throughput
- Frequency range signal

Others

- Additional mounting options
- Custom connector & cable
- Mounting brackets



Some common applications include autonomous, M2M, and asset tracking. While many of our products are multi-platforms, some specific antennas are more suitable with regards certain applications.



Our commitment to innovation is unprecedented. Our technologies power some of today's most cutting-edge wireless solutions. These solutions allow consumers to seamlessly access data from anywhere in the world. Here we take an approach where the next advances in wireless communications will come from looking at fundamental problems from the antenna/electromagnetic perspective. This new perspective lends itself to novel technologies to drive the new Internet infrastructure with smaller and higher efficiency devices, enable more bandwidth and combat interference. Two of our most successful and highly sought-after technologies include Helicore and Microstrip Patch. We are proud to present you with the technologies on which our products are designed and engineered.

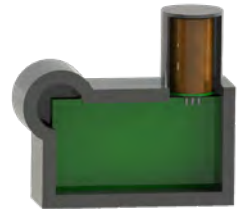


Helicore

Our patented Helicore technology provides an extremely exible and low-cost platform for designing diherent antenna products where pattern, polarization purity, eciency and size are the driving design parameters. Patented Helicore technology uses air as the dielectric core and minimizes typical losses associated with ceramic materials. Helicore technology is pushing antenna limits in terms of axial ratio, bandwidth, and pattern stability. The design itself allows easy active circuitry and ltering addition due to the independent nature of feed and antenna structure. Helicore technology addresses widely known issues with ceramic materials and ceramic antenna manufacturing processes which create wide dielectric constant variations due to material, temperature, and humidity variations. Those variations are reected in reduced performance of ceramic antennas and low manufacturing yields.

KEY ADVANTAGES AND FEATURES:

- ✓ Active circuitry and filtering integrated with antenna
- ✓ Differential of single-ended architecture
- ✓ Smaller in size
- ✓ Lower manufacturing cost
- ✓ Lighter in weight compared to ceramic solutions
- ✓ Superb axial ratio at lower elevation angles for significant multipath rejection
- ✓ Multiband and wideband capabilities (e.g. L1-L2, GPS-GLONASS, etc...)
- ✓ Meets 200 V/m susceptibility requirements
- ✓ Superb noise figure performance
- ✓ Ground-plane independent design



Microstrip

Our Microstrip technology offers a truly optimized wireless system. We are pioneering the optimization of the microstrip antenna by using proper electromagnetic grounding schemes to optimize solutions for the highest efficiency and axial ratio purity. Our technology incorporates the ground plane and creates highly optimized solutions for the application. Microstrip antennas are typically low performance and do not give the desired performance to the customer in more complex integrations where the antenna ground plane is reduced, or other parts of the device are interfering. This results in significantly lower efficiency and deteriorated axial ratio purity. We offer a technology that uses an electromagnetically co-optimized antenna and ground plane combination that enhances the system performance.

KEY ADVANTAGES AND FEATURES:

- ✓ Antenna and ground plane co-optimization for maximum performance
- ✓ Efficiency can be as much as 40% higher than regular patch technology
- ✓ Axial ratio purity improved by as much as 3 dB compared to conventional technology

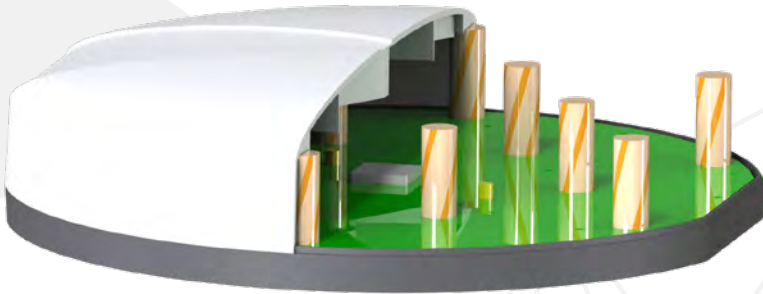


DAT

DAT™ (Dynamic Aperture Technology) is an advanced platform designed for building a new generation of low-cost user terminals that will enable higher data throughputs, stronger link integrity, and lower power consumption for aerial, maritime, and land mobile communications. One of the major impediments in mobile communications is the antenna technology. To deliver “rich” data content a new technology is required. The major complication is that in a mobile environment communication happens between moving objects. Things get significantly more complicated with satellite communications where a satellite is also moving with the respect to the end user on Earth. The current state of the art user terminals is still relying on mechanically steered or fixed solutions. These solutions either exhibit poor efficiency or are cost prohibitive. Maxtena has created the DAT™ platform to address these issues. The applications for our DAT™ platform are numerous. The typical applications are for mobile satellite communications on the move, including land, aerial, and maritime applications. However, other applications such as radar and direction-finding systems are also possible. Our DAT™ platform allows for low cost, small size, and low weight applications, which could be ideal for high-data terminals for UAV's and other aeronautical platforms.

KEY ADVANTAGES AND FEATURES:

- ✓ Achieves omni-directional coverage with the high performance of a directional antenna
- ✓ Single beam or multi-beam in single aperture/multibeam aggregation – higher throughput even on legacy systems
- ✓ Software configurable/software controlled aperture for a variety of applications and reconfigurations
- ✓ Digital sensor and gyroscopic control for accurate tracking of satellites and platform dynamics
- ✓ Interference nulling for better signal to noise
- ✓ Tracking and performing interference detection for link integrity and sustained high throughput
- ✓ Extremely low power design due to distributed power amplifier approach
- ✓ Fast satellite acquisition and tracking from computationally efficient algorithms
- ✓ Digitally steered beams eliminate all moving parts
- ✓ Scalable platform accommodates wide range of frequencies and satellite networks – L to Ka band
- ✓ Mobile platform dynamics over 360 degrees per second turning ratios





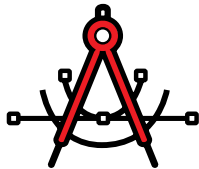
50+ patents
and continued IP
portfolio growth



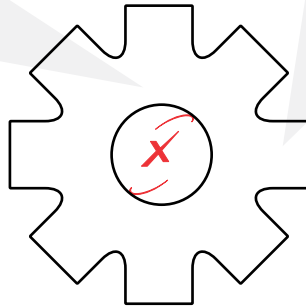
#1 SATCOM
Antenna Provider



2.5B Antenna
solutions sold and
shipped to market



24 Antenna
Measurement
Systems



3000 Platforms
designed with
leading customers



5 Global
Design
Centers



300+
Advanced
RF antennas

Feasibility support

Our Approach

The design of new products relies on the extensive use of accurate computer simulation models. Our technical staff has a unique knowledge in electromagnetic simulation and numerical modeling gained through years of experience working on embedded antenna designs and general RF problems in both industry and academia.

Every aspect of the electrical design is considered by our proprietary simulation models – from the geometry and material characteristics of the antenna enclosures to the effects of parasitic reactance on printed circuit board traces. We also consider the statistical variation of component tolerances in actual production.

Benefits to Our Approach

Our simulation techniques and methodologies have been validated successfully over a wide range of products. It has always been our goal to leverage innovative computer simulations to dramatically reduce the product design cycle and to minimize prototyping expenses. Throughout development our customers can expect:

- ✓ Added risk mitigation
- ✓ Decreased prototyping costs
- ✓ Schedule acceleration

What Our Customers Can Expect

- ✓ Development of simplified 3-D simulation model
- ✓ Investigation into design trade-offs
- ✓ Antenna optimization based off customer provided bounds
- ✓ Estimation of user proximity effects on antenna performance
- ✓ Preliminary assessment of compliance with respect to performance requirements



Antenna Measurement

Our Approach

By investing in the SATIMO Starlab Anechoic Chamber we have state of the art measurement capabilities at our fingertips. We use the SATIMO Starlab Anechoic Chamber to measure radiative characteristics of the antenna for both passive and active systems. We are also equipped to provide customers with TRP and TIS measurements.

Benefits to Our Approach

Our advanced measurement capabilities ensure that product development cycle progresses without setbacks. Additional value to our measurement approach include:

- ✓ Quick troubleshooting
- ✓ Customized radiation pattern data post processing
- ✓ Radiated performance tracking throughout product development cycle

What Our Customers Can Expect

- ✓ TRP measurements
- ✓ TIS measurements
- ✓ Multiple antenna correlation and efficiency
- ✓ 3-D complex antenna pattern



Antenna Integration

Our Approach

By leveraging the most advanced electromagnetic simulation software available, we can accurately predict the performance of new designs before any hardware is built. Prototyping is then used to verify the correlation between the design and final product. Our in-house measurement capabilities allow for quick turn prototype validation. In addition to antenna design, we provide antenna integration support for customers that require a high level of device integration.

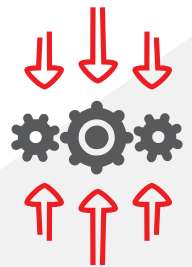
Benefits to Our Approach

Our integration services include both the electrical path, from the antenna to receiver and beyond, as well as the mechanical and industrial design support for devices that are either space or geometry limited. The benefits also include:

- ✓ Accurate first design
- ✓ Minimization of design iterations
- ✓ Quick turnaround
- ✓ Fast assessment of design modifications and adaptation
- ✓ Predictable results

What Our Customers Can Expect

- ✓ Import devices full 3-D mechanical database
- ✓ Development of fully featured simulation model
- ✓ Determination of the optimal grounding map
- ✓ PCB RF layout optimization
- ✓ Complete assessment of compliance and requirements
- ✓ Result verification through initial prototyping



Antenna Manufacturing

Our Approach

Maxtena's philosophy for manufacturing is to provide minimal overhead and more competitive price points. As a result of this philosophy we are committed to outsourced manufacturing capabilities where capital investment and overhead costs are minimized due to their distribution across a large customer base. Our strategy uses both oversea and US based facilities and we only use ISO certified contract manufacturers. Each prospective CM is required to complete a quality questionnaire and submit to a full quality audit.

Benefits to Our Approach

Our diversified manufacturing strategy allows us to support production ranging from a few units to large volume manufacturing. Additional value to our manufacturing approach include:

- ✓ Quality Assurance
- ✓ Fully capable of meeting all production requirements

What Our Customers Can Expect

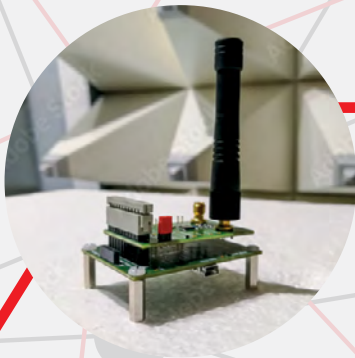
- ✓ Cost effective low volume production
- ✓ Competitive high volume manufacturing
- ✓ Scalable production model
- ✓ ITAR registered CM
- ✓ Quality assurance with innovative and proprietary end of line testing methodologies



The high precision of Maxtena's antennas relies on the cutting-edge testing and measurement capabilities of our company. Our antenna designs are approved before manufacturing, using ultra high accuracy testing, and measurements.

*Key Components
Of Our
Measurement
system*

The Anechoic Chamber



Vector Network Analyzers (Up To 20 Ghz)



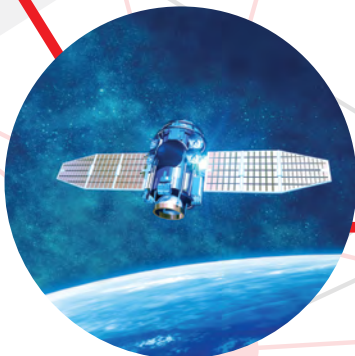
Environment Test Equipment



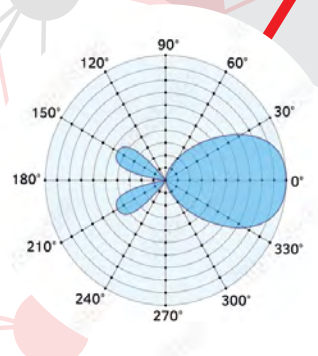
Positioning Controller



GPS Satellite Recognition



Antenna Measurement Software



FEASIBILITY STUDIES

The design of new products relies on the extensive use of accurate computer simulation models. Our engineering staff has a unique knowledge in electromagnetic simulation and numerical modeling gained through years of experience working on embedded antenna designs and general RF problems in both industry and academia. Every aspect of the electrical design is considered by our proprietary simulation models – from the geometry and material characteristics of the antenna enclosures to the effects of parasitic reactance on printed circuit board traces. We also consider the statistical variation of component tolerances in actual production.

WHAT TO EXPECT

- ✓ Development of simplified 3-D simulation models
- ✓ Investigation into design trade-offs
- ✓ Antenna optimization based off customer provided bounds
- ✓ Estimation of user proximity effects on antenna performance
- ✓ Preliminary assessment of compliance with respect to performance requirements

CHAMBER TESTING

Maxtena has in-house the latest in antenna and RF measurement capabilities. We use the SATIMO Starlab Anechoic Chamber to measure radiative characteristics of the antenna for both passive and active systems. We are also equipped to provide you with TRP and TIS measurements.

WHAT TO EXPECT

- ✓ Multiple antenna correlation and efficiency
- ✓ 3-D complex antenna pattern
- ✓ Antenna input response
- ✓ TRP/TIS measurements

PROTOTYPING

By leveraging the most advanced electromagnetic simulation software available, we can accurately predict the performance of new designs before any hardware is built. Prototyping is then used to verify the correlation between the design and final product. Our in-house measurement capabilities allow for quick turn prototype validation. In addition to antenna design, we provide antenna integration support for clients that require a high level of device integration.

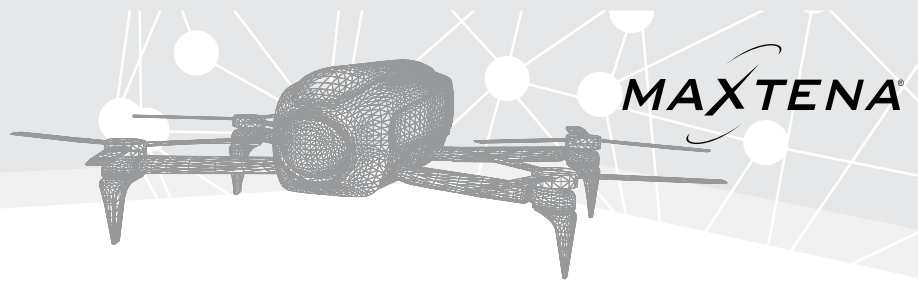
WHAT TO EXPECT

- ✓ Import devices full 3-D mechanical database
- ✓ Development of fully featured simulation models
- ✓ Determination of the optimal grounding map PCB RF layout optimization
- ✓ Complete assessment of compliance and requirements
- ✓ Result verification through initial prototyping

Helix Antennas



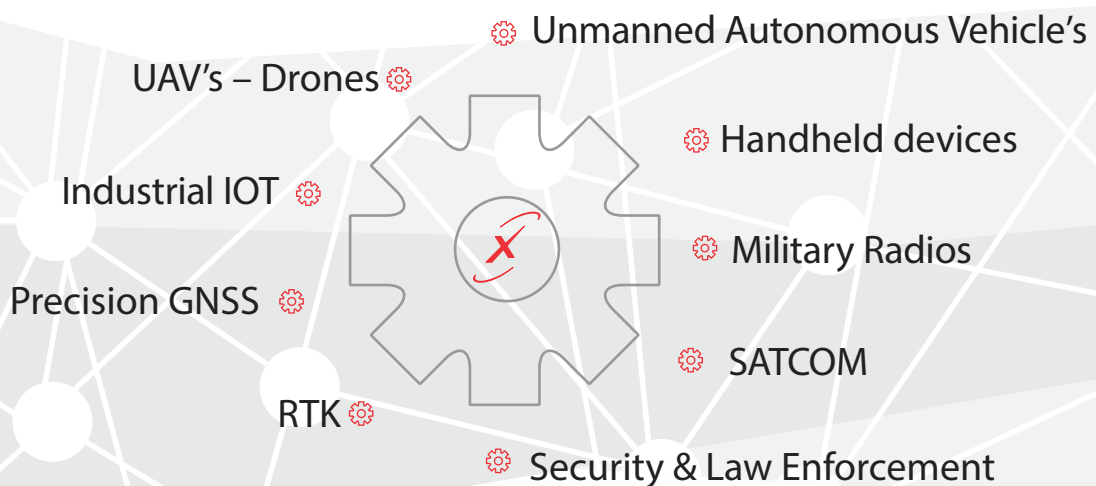
Helix antennas



We offer the most advanced patented and innovative RF antenna solutions for a variety of GNSS, IOT, LTE and ISM applications. Our Helicore™ antennas are the best performing and lightest helix solutions available. The patented Helicore™ technology offers both a weight advantage and performance advantage for the most demanding applications and environments. The antennas can be used for GNSS,

LTE, ISM and SATCOM networks and can either be embedded or used externally with a device. Our helix antennas can get a signal in many more orientations compared to a block ceramic antenna. If the orientation of the unit is not always toward the sky then one of our helix antennas will be the ideal choice as an antenna ground plane is not required.

Applications



Helical GPS L1 External

M1575HCT-22P-SMA

High Performance Passive GPS Antenna

Part #: 100 00043-01

- ✔ GPS band ✔ Very low axial ratio ✔ IP-67 mounted and unmounted ✔ Ultra-light weight ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz
Antenna element peak gain	1dB (typical)/ 1.5db (max)
Axial Ratio	-0.5 dBic (typical)
VSWR	1.5 (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	38 mm (height) x 18.5 mm (diameter)

M1575HCT-22P-MR

High Performance Passive GPS Antenna

Part #: 100-00042-01

- ✔ GPS band ✔ Very low axial ratio ✔ IP-67 mounted and unmounted ✔ Ultra-light weight ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz
Antenna element peak gain	-0.5 dBic (typical)
Axial Ratio	1dB (typical)/ 1.5db (max)
VSWR	1.5 (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	47.1 mm (height) x 18.5 mm (diameter)

M1575HCT-15A-SMA

High Performance Active GPS Antenna

Part #: 100-00028-07

- ✔ GPS band ✔ Very low axial ratio ✔ IP-67 mounted and unmounted ✔ Ultra-light weight ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz (GPS)
Antenna element peak gain	28 dBic (typical) @ 3.3 V
Axial Ratio	1dB (max) @ zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	38 mm (height) x 18.5 mm (diameter)

Helical GPS L1 External



M1575HCT-GN

High performance GPS Passive Antenna

Part #: 100-00146-01

- ✓ Very low axial ratio
- ✓ IP-67 mounted
- ✓ Ultra light weight - 45 grams
- ✓ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz
Antenna element peak gain	1.8 dBic (GPS)
Axial Ratio	0.2 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	38 mm (height) x 18.5 mm (diameter)

Helical GPS L1 Embedded



M1516HCT-22-P

High performance GPS GLONASS Antenna

Part #: 108-00073-01

- ✔ GPS band
- ✔ Very low axial ratio
- ✔ Easy integrate 3 pin connectors
- ✔ Ultra light weight - 2 grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (GLONASS)
Axial Ratio	1 dB (typical) / 1.5 dB (max)
Polarization	RHCP
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Connector	3 Pin OR U.FL
Weight	2 grams
Dimensions	35.2 x 24mm



M1575HCT-22P-MR

High Performance Passive GPS Antenna

Part #: 100-00042-01

- ✔ GPS band
- ✔ Very low axial ratio
- ✔ Easy integrate 3 pin connectors
- ✔ Ultra light weight - 2 grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz
Antenna element peak gain	-0.5 dBic
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	24.30 x 22 x 12.85 mm

Helical GPS/GLONASS L1 External

M1516HCT-15A-SMA

High-Performance Active Antenna

Part #: 100-00107-01

- ✔ High performance dual stage LNA active antenna
- ✔ GPS and GLONASS L1 band
- ✔ A screw-on design
- ✔ An integrated SMA connector
- ✔ Ultra-light design
- ✔ IP67
- ✔ VERY LIGHT: 10.6 grams



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz
Antenna element peak gain	-0.5 dBic
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	24.30 x 22 x 12.85 mm

M1516HCT-GN

GPS GLONASS Passive Antenna

Part #: 100-00150-01

- ✔ Very low axial ratio
- ✔ IP-67 mounted
- ✔ Ultra-light weight-45 grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) / 1602 MHz (Glonass)
Antenna element peak gain	1.8 dBic (GPS) / -1.7 dBic (Glonass)
Axial Ratio	0.2 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA male
Dimensions	135 mm (height) x 18.5 mm (diameter)

M1516HCT-P-EXT

GPS GLONASS Passive Antenna

Part #: 100-00114-01/02/03/04

- ✔ Very low axial ratio
- ✔ Ground plane independent
- ✔ Magnet mount
- ✔ 1,500 mm LRM100 coaxial cable
- ✔ TNC, SMA, SMB, MCX connector



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) / 1602 MHz (Glonass)
Antenna element peak gain	1.8 dBic (GPS) / -1.7 dBic (Glonass)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount / TNC, SMA, SMB, MCX connectors
Dimensions	52.2 mm (height) x 36 mm (diameter)

Helical GPS/GLONASS L1 External



M1516HCT-P-SMA

High Performance L1 GPS GLONASS Passive Antenna

Part #: 100-00002-02

Very low axial ratio ✓ IP-67 mounted ✓ Ultra-light weight ✓ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) / 1602 MHz (Glonass)
Antenna element peak gain	1.5 dBic (GPS) / 1.5 dBic (GLONASS)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA connector
Dimensions	2.20 mm (height) x 36 mm (diameter)

Explore

Our product

M1516HCT-P-EXT

MAXTENA®

M1516HCT-P-EXT

The M1516HCT-P-EXT is a dual band, high performance antenna designed for both GPS and GLONASS, and built on Maxtena proprietary Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor.

The M1516HCT-P-EXT is an external magnet mount antenna, featuring a 1,500 mm LRM100 coaxial cable with integrated connector. This product is ideal for applications requiring high quality reception of both GPS and GLONASS signals.

The M1516HCT-P-EXT will be available either as an off-the-shelf antenna housed in rugged housing or as an embedded antenna option which is mounted on the inside of a customer's designed enclosure

For the embedded version, Maxtena provides support for installation and integration of the embedded antenna to offer an exceptional antenna performance. Maxtena can embed the antenna in any housing, then tune the antenna to match their housing's materials, electronics, and space.



Features

- ✓ Very low axial ratio
- ✓ Ground plane independent
- ✓ Magnet mount
- ✓ 1,500 mm LRM100 coaxial cable
- ✓ TNC, SMA, SMB, MCX connector

Suggested Applications include

- ✓ Vehicle and fleet tracking
- ✓ Military & security
- ✓ Asset tracking
- ✓ Oil & gas industries
- ✓ Navigation devices
- ✓ Mining equipment
- ✓ LBS & M2M applications
- ✓ Handheld devices
- ✓ Law enforcement

Helical GPS/GLONASS L1 Embedded

M1561HCT-22-P

Passive GPS GLONASS Beidou Antenna

Part #: 108-00073-02

- ✔ GPS, GLONASS and Beidou bands
- ✔ Very low axial ratio
- ✔ Easy integrate 3 pin connectors
- ✔ Ultra light weight - 2 grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (GLONASS) 1561 MHz (Beidou)
Axial Ratio	1 dB (typical) / 1.5 dB (max)
Polarization	RHCP
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Connector	3 Pin OR U.FL
Weight	2 grams
Dimensions	26.9 x 12.8mm

M1516HCT-P-UFL

High Performance L1 GPS GLONASS Passive embedded Antenna

Part #: 108-00072-01

- ✔ Very low axial ratio
- ✔ IP-67 mounted
- ✔ Ultra-light weight (3 grams)
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) / 1602 MHz (GLONASS)
Antenna element peak gain	1.5 dBic (GPS) / 1.5 dBic (GLONASS)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ U.FL connector
Dimensions	33 mm (height) x 13.2 mm (diameter)

Helical GPS/GLONASS/ Beidou External



M1580HCT-P-SMA

GPS/BEIDOU/GLONASS PASSIVE ANTENNA

Part #: 100-00180-01

✔ Very low axial ratio ✔ Superb multipath rejection ✔ IP-67 Rated ✔ Ground plane independent ✔ Omni Directional ✔ High Gain & Efficiency



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Passive gain	-2.5 dBic (typical)
Axial Ratio	1 dB (max) @ zenith

Key mechanical specifications:

Parameter	Specification
Connector	SMA
Dimensions	Ø 18.5 × 38 mm

Helical GPS/GLONASS/ Beidou Embedded

M1580HCT-22-P

Passive GPS GLONASS Galileo Antenna

Part #: 108-00073-03

- ✔ GPS, GLONASS and Galileo (E1) bands
- ✔ Very low axial ratio
- ✔ Easy integrate 3 pin connectors
- ✔ Ultra light weight - 2 grams
- ✔ Ground plane independent



Key electrical Specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (GLONASS) 1176.45 MHz (Beidou)
Antenna element peak gain	1 dB (typical) / 1.5 dB (max)
Polarization	RHCP
VSWR	≤ 1.5

Key mechanical Specifications:

Parameter	Specification
Connector	U. FL coaxial 50 Ohm termination
Weight	2 grams
Dimensions	26.9 x 12.8 mm

MULTIBAND-HELIX-1539

High Performance Omnistar/GPS/GLONASS/Beidou Embedded Antenna

Part #: 100-00049-01

- ✔ Ultra Compact 8 Element Multiband RHCP Helix
- ✔ Multiple Operating bands 1539MHz-1610 MHz - Beidou/GPS L1/GLONASS/Omni-star
- ✔ Maxtena patented Helicore™ light-weight air-dielectric design
- ✔ U. FL coaxial 50 Ohm termination



Key electrical Specifications:

Parameter	Specification
Frequency	1539 MHz-1610 MHz
Antenna element peak gain	1.5 dBic (typical) @1575MHz / 0.2 dBic (typical) @1575 MHz
Axial Ratio	2.0 dB (typical) @bore-sight

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	U. FL coaxial 50 Ohm termination
Dimensions	29.20 mm (height) x 17 mm (diameter)

Discover

Our new L1 L2 L5 L-Band

Multi-Frequency Active Antenna

M9HCT-A-SMA

Maxtena introduces the world's most advanced, smallest, patented GNSS antenna for high precision and autonomous multi-frequency applications. The M9HCT-A-SMA antenna is a high accuracy, multi-frequency active helix GNSS antenna + L-band corrections services. The revolutionary design will offer simultaneous GNSS reception on L1: GPS, GLONASS, Galileo, Beidou, L2: GPS L2C, Galileo E5B and GLONASS L3OC and L5: GPS + L-band corrections in a rugged, compact and ultra-lightweight form factor. The antenna is a perfect match for high precision applications.

The M9HCT-A-SMA is a great fit for the UAV markets where high performance and low weight are driving features in antenna selection. The M9HCT-A-SMA active helix design features Maxtena's patented compact and lightweight Helicore® technology. This technology provides excellent pattern control, polarization purity and high efficiency in a very compact form factor. The M9HCT-A-SMA is ground plane independent and offers extremely low power consumption and minimal phase center variation over azimuth crafted for high precision applications. The antenna offers superb axial ratio ensuring multipath error is mitigated.

For the embedded version, Maxtena provides support for installation and integration of the embedded antenna to offer an exceptional antenna performance. Maxtena can embed the antenna in any housing, then tune the antenna to match their housing's materials, electronics and space.




Features

- ✓ GNSS/QZSS-L1/L2, QZSS-L6, GLONASS-G1/G2, Galileo-E1/E6, Beidou-B1/B3 + L-band
- ✓ Rugged IP67 rating with SMA mount
- ✓ Small form factor
- ✓ Ground plane independent
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Low power consumption
- ✓ Low phase center variation over azimuth and elevation and among different samples
- ✓ Ultra-lightweight
- ✓ Automotive grade electronics

Suggested Applications include

- ✓ UAV/ Drones
- ✓ Unmanned Ground Vehicles (UGV)
- ✓ Unmanned Systems
- ✓ High Precision Navigation
- ✓ Military & Security
- ✓ Agriculture & FarmTech
- ✓ Handheld GNSS Devices

Helical GPS/GLONASS/ Galileo External



M1580HCT-GN

GPS Beidou Glonass Passive Antenna

Part #: 100-00151-01

- ✔ Very low axial ratio
- ✔ IP-67 mounted
- ✔ Ultra light weight - 45 grams
- ✔ Ground plane independent



Key electrical Specifications:

Parameter	Specification
Frequency	1561 MHz (Beidou) 1575 MHz (GPS) 1602 MHz (Glonass)
Antenna element peak gain	1.3 dBic (Beidou) 1.8 dBic (GPS) -1.7 dBic (Glonass)
Axial Ratio	0.2 dB (typical)

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	SMA male
Dimensions	135 mm (height) x 18.5 mm (diameter)

Helical GPS/GLONASS/ Galileo Embedded

M1580HCT-22-P

Passive GPS GLONASS Galileo Antenna

Part #: 108-00073-03

- ✔ GPS, GLONASS and Galileo (E1) bands
- ✔ Very low axial ratio
- ✔ Easy integrate 3 pin connectors
- ✔ Ultra light weight - 2 grams
- ✔ Ground plane independent



Key electrical Specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (GLONASS) 1176.45 MHz (Beidou)
Axial Ratio	1 dB (typical) / 1.5 dB (max)
Polarization	RHCP
VSWR	≤ 1.5

Key mechanical Specifications:

Parameter	Specification
Connector	3 Pin OR U,FL
Weight	2 grams
Dimensions	26.9 x 12.8mm

M4HCT-22-P

Passive GPS GLONASS Galileo Beidou Antenna

Part #: 108-00073-04

- ✔ GPS, GLONASS ,Galileo, Beidou bands
- ✔ Very low axial ratio
- ✔ Easy integrate 3 pin connectors
- ✔ Ultra light weight - 2 grams
- ✔ Ground plane independent



Key electrical Specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (GLONASS) 1176.45 MHz (Beidou)
Axial Ratio	1 dB (typical) / 1.5 dB (max)
Polarization	RHCP
VSWR	≤ 1.5

Key mechanical Specifications:

Parameter	Specification
Connector	3 Pin OR U,FL
Weight	2 grams
Dimensions	26.9 x 12.8mm

Helical L1 GPS/GLONASS/ Galileo/Beidou External



M4HCT-A-SMA Multi-Frequency Active Antenna

Part #: 100-00117-01

- ✔ Quadrifilar helix antenna
- ✔ Rugged IP67 rating with SMA mount
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical Specifications:

Parameter	Specification
Frequency	1559-1607 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	0.5 dB
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	3.0 dB \pm 3 dB

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	51 mm (height) x 34 mm (diameter)

Helical L1 GPS/GLONASS/ Galileo/Beidou Embedded

M4HCT-22-P

Passive GPS GLONASS Galileo Beidou Antenna

Part #: 108-00073-04

- ✔ GPS, GLONASS, Galileo, Beidou bands
- ✔ Very low axial ratio
- ✔ Easy integrate 3 pin connectors
- ✔ Ultra light weight - 2 grams
- ✔ Ground plane independent



Key electrical Specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (GLONASS) 1176.45 MHz (Beidou)
Axial Ratio	1 dB (typical) / 1.5 dB (max)
Polarization	RHCP
VSWR	≤ 1.5

Key mechanical Specifications:

Parameter	Specification
Connector	3 Pin OR U.FL
Weight	2 grams
Dimensions	26.9 x 12.8mm

M4HCT-A-EMB

Embedded L1 GPS/GLONASS/Galileo/Beidou Active Antenna

Part #: 108-00074-01

- ✔ Quadrifilar helix antenna
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical Specifications:

Parameter	Specification
Frequency	1559-1607 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	0.5 dB
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	3.0 dB ±3 dB

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

Helical L1/L2 GPS/GLONASS External

M1227HCT-A2-SMA

Rugged L1/L2 GPS GLONASS Active Antenna

Part #: 100-00004-02

- ✓ L1/L2 GPS-GLONASS bands
- ✓ Rugged IP-67 rating
- ✓ Superior out-of-band rejection
- ✓ 50 V/m jamming resistant
- ✓ Very low noise figure
- ✓ SMA mount
- ✓ Ground plane independent
- ✓ GIS & RTK applications
- ✓ Ultra-light weight - 24 grams (typical)



Key electrical Specifications:

Parameter	Specification
Frequency	1217-1250 MHz (L2) / 1565-1610 MHz (L1)
Antenna element peak gain	1217-1250 MHz (L2) / 1565-1610 MHz (L1)
Axial Ratio	0.5dB (L1), 0.5dB (typical) 1dB (max)
Conducted Gain	30 dBic @ 1227MHz (typical) 28 dBic @ 1575 MHz (typical) 28 dBic @ 1602 MHz (typical)

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	50x30 mm

M1227HCT-SMA-GN

L1/L2 GPS GLONASS ACTIVE ANTENNA/SMA

Part #: 100-00105-01

- ✓ Very low axial ratio
- ✓ IP-67 mounted
- ✓ Ultra lightweight - 45 grams
- ✓ Ground plane independent



Key electrical Specifications:

Parameter	Specification
Frequency	1565-1610 MHz (L1) 1217-1250 MHz (L2)
Antenna element peak gain	2 dBic @ 1227 MHz 2 dBic @ 1575 MHz
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	≤ 1 dB (0.5 dB typical) (L2) ≤ 1 dB (0.5 dB typical) (L1)

Key mechanical Specifications:

Parameter	Specification
Connector	SMA Connector
Dimensions	∅ 18.5 × 135 mm

M1227HCT-TNC-G

L1/L2 GPS GLONASS ACTIVE ANTENNA/TNC

Part #: 100-00133-02

- ✓ Very low axial ratio
- ✓ IP-67 mounted
- ✓ Ultra lightweight - 45 grams
- ✓ Ground plane independent



Key electrical Specifications:

Parameter	Specification
Frequency	1559-1607 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	0.5 dB
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	3 0 dB ±3 dB

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

Helical L1/L2 GPS/GLONASS External

M7HCT-A-SMA

Rugged L1/L2 GPS GLONASS Active Antenna

Part #: 100-00069-01

- ✔ Quadrifilar helix antenna
- ✔ Rugged IP67 rating with SMA mount
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical Specifications:

Parameter	Specification
Frequency	1192-1231 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	Max 1.2 dB @ the Zenith Max 0.9 dB @ the Zenith
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	30 dB \pm 3 dB

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	51 mm (height) x 34 mm (diameter)

Helical L1/L2 GPS/GLONASS Embedded

M1227HCT-A-EMB

Embedded L1/L2 GPS GLONASS Active Antenna

Part #: 108-00044-01

- ✓ L1/L2 GPS-GLONASS bands
- ✓ Superior out-of-band rejection
- ✓ 50 V/m jamming resistant
- ✓ Very low noise figure
- ✓ SMA mount
- ✓ Ground plane independent
- ✓ GIS & RTK applications
- ✓ Ultra-light weight



Key electrical specifications:

Parameter	Specification
Frequency	1217-1250 MHz (L2) / 1565-1610 MHz (L1)
Antenna element peak gain	L1 28 dBic / L2 30 dBic
Axial Ratio	L1 0.5 dB (typical) / 1 dB (max) L2 0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	35.2 x 24mm

M7HCT-A-EMB

Embedded L1 GPS/GLONASS/Galileo/Beidou

Part #: 108-00075-01

- ✓ Quadrifilar helix antenna
- ✓ Rugged IP67 rating with SMA mount
- ✓ Small form factor
- ✓ Ground plane independent
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Low power consumption
- ✓ Low phase center variation over azimuth and elevation and among different samples
- ✓ Ultra-lightweight
- ✓ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1559-1607 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	0.5 dB
Axial Ratio	Max 0.9 dB @ Zenith
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

Helical GPS/GLONASS/L-Band External

M9HCT-A-SMA

Rugged L1/L2/L5 GPS GLONASS/ L-band corrections Active Antenna

Part #: 100-00124-01

- ✓ Quadrifilar helix antenna
- ✓ Rugged IP67 rating with SMA mount
- ✓ Small form factor
- ✓ Ground plane independent
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Low power consumption
- ✓ Low phase center variation over azimuth and elevation and among different samples
- ✓ Ultra-lightweight
- ✓ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1192-1231 MHz 1559-1606 MHz 1164-1189 MHz (L5) 1539 - 1559 MHz
Antenna element peak gain	1.3 dB / 0.5 dB / 0.5 dB / 1.5 dB
Axial Ratio	≤ 1.2 dB @ Zenith ≤ 0.9 dB @ Zenith 1.1 dB @ Zenith ≤ 0.5 dB
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	51 mm (height) x 34 mm (diameter)

Helical GPS/GLONASS/L-Band Embedded

M9HCT-A-SMA

Embedded active Antenna (L1, L2, LL5, & L-band)

Part #: 100-00124-01

- ✔ Quadrifilar helix antenna
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1192-1231 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	1.1 dB / 0.5 dB
Axial Ratio	Max 1.2 dB @ Zenith Max 0.9 dB @ Zenith
Conducted Gain	30 dB \pm 3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

Helical Multi-Frequency bands External

M1227HCT-A2-SMA

Rugged L1/L2 GPS GLONASS Active Antenna

Part #: 100-00004-02

- ✓ L1/L2 GPS-GLONASS bands
- ✓ Rugged IP-67 rating
- ✓ Superior out-of-band rejection
- ✓ 50 V/m jamming resistant
- ✓ Very low noise figure
- ✓ SMA mount
- ✓ Ground plane independent
- ✓ GIS & RTK applications
- ✓ Ultra-light weight - 24 grams (typical)



Key electrical specifications:

Parameter	Specification
Frequency	1217-1250 MHz (L2) / 1565-1610 MHz (L1)
Antenna element peak gain	2 dBic @ 1227 MHz (typical) / 2 dBic @ 1575 MHz (typical)
Axial Ratio	0.5dB (L1), 0.5dB (typical) / 1dB (max)
Total Gain	30 dBic @ 1227 MHz (typical) 28 dBic @ 1575 MHz (typical) 28 dBic @ 1602 MHz (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	50x30 mm

M4HCT-A-SMA

Multi-Frequency Active Antenna

Part #: 100-00117-01

- ✓ Quadrifilar helix antenna
- ✓ Rugged IP67 rating with SMA mount
- ✓ Small form factor
- ✓ Ground plane independent
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Low power consumption
- ✓ Low phase center variation over azimuth and elevation and among different samples
- ✓ Ultra-lightweight
- ✓ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1559-1607 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	0.5 dB
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	No cable, male SMA connector
Dimensions	51 mm (height) x 34 mm (diameter)

M7HCT-A-SMA

Rugged L1/L2 GPS GLONASS Active Antenna

Part #: 100-00069-01

- ✓ Quadrifilar helix antenna
- ✓ Rugged IP67 rating with SMA mount
- ✓ Small form factor
- ✓ Ground plane independent
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Low power consumption
- ✓ Low phase center variation over azimuth and elevation and among different samples
- ✓ Ultra-lightweight
- ✓ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1192-1231 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	Max 1.2 dB @ the Zenith Max 0.9 dB @ the Zenith
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	51 mm (height) x 34 mm (diameter)

Helical Multi-Frequency bands External

M8HCT-A-SMA

Rugged L1/L2/L5 GPS GLONASS Active Antenna

Part #: 100-00124-01

- ✔ Quadrifilar helix antenna
- ✔ Rugged IP67 rating with SMA mount
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical Specifications:

Parameter	Specification
Frequency	1192-1231 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1) 1164-1189 MHz (L5)
Antenna element peak gain	1.1 dB / 0.5 dB / 0.5 dB
Axial Ratio	Max 1.2 dB @ Zenith Max 0.9 dB @ Zenith 1.1 dB @ Zenith
Conducted Gain	30 dB ±3 dB

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	No cable, male SMA connector
Dimensions	51 mm (height) x 34 mm (diameter)

M9HCT-A-SMA

Rugged L1/L2/L5 GPS GLONASS/ L-band corrections Active Antenna

Part #: 100-00124-01

- ✔ Quadrifilar helix antenna
- ✔ Rugged IP67 rating with SMA mount
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1192-1231 MHz 1559-1606 MHz 1164-1189 MHz (L5) 1539 - 1559 MHz
Antenna element peak gain	1.3 dB / 0.5 dB / 0.5 dB / 1.5 dB
Axial Ratio	≤ 1.2 dB @ Zenith ≤ 0.9 dB @ Zenith 1.1 dB @ Zenith ≤ 0.5 dB
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	51 mm (height) x 34 mm (diameter)

Helical Multi-Frequency bands Embedded

M1227HCT-A-EMB

Embedded L1/L2 GPS GLONASS Active Antenna

Part #: 108-00044-01

- ✓ L1/L2 GPS-GLONASS bands
- ✓ Superior out-of-band rejection
- ✓ 50 V/m jamming resistant
- ✓ Very low noise figure
- ✓ SMA mount
- ✓ Ground plane independent
- ✓ GIS & RTK applications
- ✓ Ultra-light weight



Key electrical specifications:

Parameter	Specification
Frequency	1217-1250 MHz (L2) / 1565-1610 MHz (L1)
Antenna element peak gain	L1 28 dBic / L2 30 dBic
Axial Ratio	L1 0.5 dB (typical) / 1 dB (max) L2 0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA
Dimensions	35.2 x 24mm

M4HCT-A-EMB

Embedded L1 GPS/GLONASS/Galileo/Beidou Active Antenna

Part #: 108-00074-01

- ✓ Quadrifilar helix antenna
- ✓ Small form factor
- ✓ Ground plane independent
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Low power consumption
- ✓ Low phase center variation over azimuth and elevation and among different samples
- ✓ Ultra-lightweight
- ✓ Automotive grade electronics



Key electrical Specifications:

Parameter	Specification
Frequency	1559-1607 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	0.5 dB
Axial Ratio	Max 0.9 dB @ the Zenith
Conducted Gain	3.0 dB ±3 dB

Key mechanical Specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

M7HCT-A-EMB

Embedded L1 GPS/GLONASS/Galileo/Beidou

Part #: 108-00075-01

- ✓ Quadrifilar helix antenna
- ✓ Rugged IP67 rating with SMA mount
- ✓ Small form factor
- ✓ Ground plane independent
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Low power consumption
- ✓ Low phase center variation over azimuth and elevation and among different samples
- ✓ Ultra-lightweight
- ✓ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1559-1607 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	0.5 dB
Axial Ratio	Max 0.9 dB @ Zenith
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

Helical Multi-Frequency bands Embedded

M8HCT-A-EMB

Embedded L1/L2/L5 GPS GLONASS Active Antenna

Part #: 108-00076-01

- ✔ Quadrifilar helix antenna
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical specifications:

Parameter	Specification
Frequency	1192-1231 MHz 1559-1606 MHz 1164-1189 MHz (L5)
Antenna element peak gain	1.1 dB / 0.5 dB / 0.5 dB
Axial Ratio	Max 1.2 dB @ Zenith Max 0.9 dB @ Zenith 1.1 dB @ Zenith
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

M9HCT-A-SMA

Embedded active Antenna (L1, L2, LL5, & L-band)

Part #: 100-00124-01

- ✔ Quadrifilar helix antenna
- ✔ Small form factor
- ✔ Ground plane independent
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Low phase center variation over azimuth and elevation and among different samples
- ✔ Ultra-lightweight
- ✔ Automotive grade electronics



Key electrical specifications:

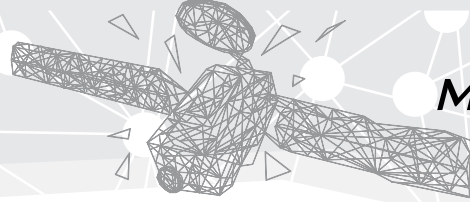
Parameter	Specification
Frequency	1192-1231 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Antenna element peak gain	1.1 dB / 0.5 dB
Axial Ratio	Max 1.2 dB @ Zenith Max 0.9 dB @ Zenith
Conducted Gain	30 dB ±3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	34.60 mm (height) x 28.50 mm (diameter)

Iridium/GPS/GLONASS

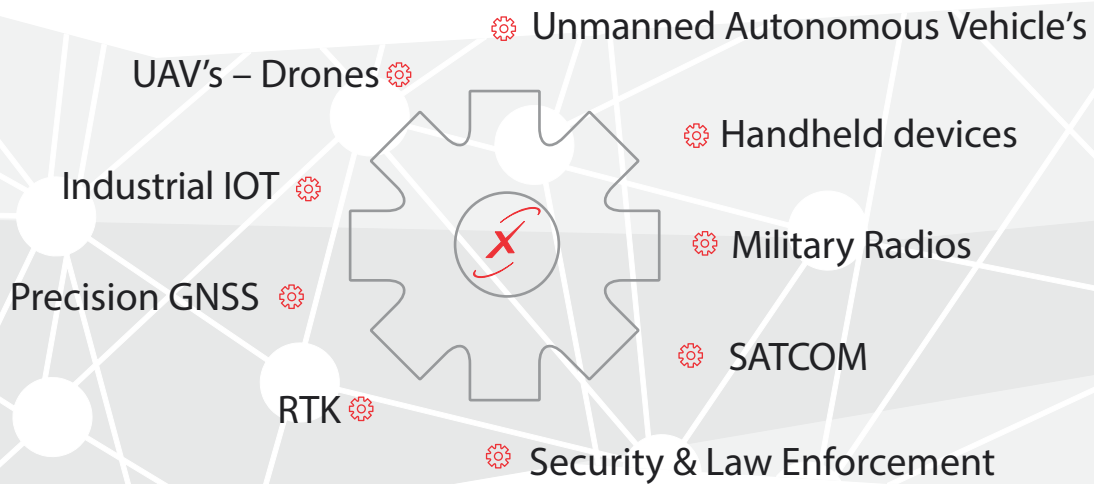




Maxtena's line of GPS and GLONASS helix antenna can get a signal in many different orientations compared to a block ceramic antenna. If the orientation of the unit containing the antenna is not always toward the sky then one of our helix antennas will be the ideal choice as an antenna ground plane is not required.

Maxtena's line of Iridium antennas are fully Iridium network certified and designed to complement a wide range of applications, including fleet, asset and personal tracking, handheld devices, satellite telephony, utility monitoring, and more.

Applications



Helical Iridium/ GPS/GLONASS External

M1610HCT-GN

GPS GLONASS Iridium Passive Antenna

Part #: 100-00149-01

- ✔ Very low axial ratio
- ✔ IP-67 mounted and unmounted
- ✔ Ultra-light weight-45grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (Glonass) 1621 MHz (Iridium)
Antenna element peak gain	3.8 dBic (GPS) -1.7 dBic (Glonass) 2.0 dBic (Iridium)
Axial Ratio	0.2 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA male
Dimensions	135 mm (height) x 18.5 mm (diameter)

M1600HCT-P-SMA

High Performance Iridium/GPS/GLONASS Passive Antenna

Part #: 100-00003-02

- ✔ Very low axial ratio
- ✔ IP-67 mounted and unmounted
- ✔ Ultra-light weigh- 11grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz (Iridium) 1575 MHz (GPS) 1602 MHz (GLONASS)
Antenna element peak gain	2.8 dBic (Iridium) -3 dBic (GPS) 0 dBic (GLONASS)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	48 mm (height) x 18.5 mm (diameter)

SatFleet

Low Profile, Iridium Certified, Active GPS Fleet Antenna for Iridium Voice/Data and GPS

Part #: 100-00045-01

- ✔ Superior Iridium Voice/Data performance
- ✔ Iridium ground plane independent
- ✔ High performance helix Iridium antenna
- ✔ Rugged IP-67 housing
- ✔ Low profile with screw mount
- ✔ Superb low elevation performance
- ✔ Low weight



Key electrical specifications:

Parameter	Specification
Frequency	1621 MHz 1575.42 MHz
Antenna element peak gain	1.4dBic (typical) @ broadside 5.5 dBic
Axial Ratio	1.5 dB (typical) 1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design
Dimensions	61 x 50 x 116 mm

Helical Iridium/ GPS/GLONASS External



SatFleet 3in1

Low Profile, Iridium Certified, Active GPS Fleet Antenna for Iridium Voice/Data and GPS

Part #: 100-00131-01

- ✓ Superior Iridium Voice/Data performance
- ✓ Iridium ground plane independent
- ✓ High performance helix Iridium antenna
- ✓ Rugged IP-67 housing
- ✓ Low profile with screw mount
- ✓ Superb low elevation performance
- ✓ Low weight



Key electrical specifications:

Parameter	Specification
Frequency	1621 MHz 1575.42 MHz 1602 MHz (Glonass)
Antenna element peak gain	1.6 dBic (typical) @ broadside 5.5 dBic 5.5 dBic
Axial Ratio	1.7 dB (typical) 1.5 dB (typical) / 2.5 dB (max) 1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design
Dimensions	61 x 50 x 116 mm

Helical Iridium/ GPS/GLONASS Embedded

M1600HCT-P-UFL

High Performance Iridium Passive Embedded Antenna

Part #: 100-00032-01

- ✔ Very low axial ratio
- ✔ Iridium bands
- ✔ Ultra light weight - 3 grams
- ✔ Ground plane independent



Key electrical specifications:

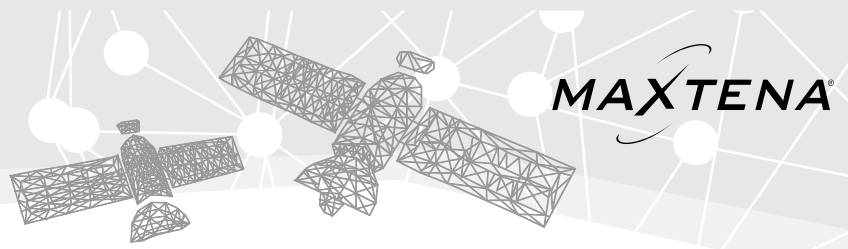
Parameter	Specification
Frequency	1616-1626 MHz (Iridium)
Antenna element peak gain	2.8 dBic (Iridium)
Axial Ratio	0.2 dB (typical) / 0.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design
Dimensions	61 x 50 x 116 mm

SATCOM Antenna Systems



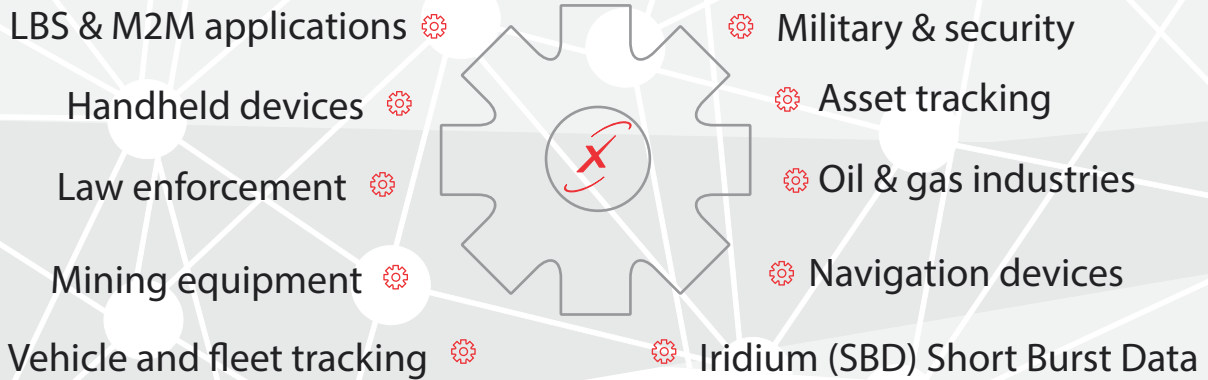


From maritime and military, to mining and oil and gas, Maxtena offers Iridium technology to empower OEMs, customers, and end users across various industries to manage their heavy equipment fleets more efficiently — optimizing overall performance, improving safety for equipment and crews, and connecting to meet intelligence. The antennas are available in several different sizes depending on customer requirements.

Maxtena's line of Iridium antennas are fully Iridium Network Certified and designed to complement a wide range of applications, including fleet, asset and personal tracking, handheld devices, satellite telephony, utility monitoring and more.

We produce both external antennas that come in a range of rugged housings, as well as embedded antennas. These antennas can be customized with different cable lengths and connectors upon request. Iridium provides real time access to high-value data letting you or your customers take actions to prevent potential failures and avoid costly consequences.

Applications



M1621HCT-P-SMA Iridium Certified Passive Antenna

M1621HCT-P-SMA

The M1621HCT-P-SMA is a high performance Iridium Certified passive antenna designed for wireless applications.

The antenna is built on proprietary Maxtena Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor.

The M1621HCT-P-SMA is a screw-on design, featuring an integrated SMA connector and is rated IP-67 when mounted for added protection. This product is designed for applications requiring high quality reception of the Iridium network.

Compliant with any Iridium Modem (9602, 9603, and 9523)

Measures: 48 mm (height) x 18.50 mm (width)



Features

- ✓ Optimized for Iridium network
- ✓ Very low axial ratio
- ✓ IP-67 mounted and unmounted
- ✓ Ultra-light weight
- ✓ Ground plane independent

Suggested Applications include

- ✓ Vehicle and fleet tracking
- ✓ Military & security
- ✓ Asset tracking
- ✓ Iridium (SBD) Short Burst Data
- ✓ Oil & gas industries
- ✓ Navigation devices
- ✓ Mining equipment
- ✓ LBS & M2M applications
- ✓ Handheld devices



For the embedded version, Maxtena provides support for installation and integration of the embedded antenna to offer an exceptional antenna performance. Maxtena can embed the antenna in any housing, then tune the antenna to match their housing's materials, electronics, and space.

Iridium Helix antennas

External

M1621HCT-GN

High performance Iridium Antenna

Part #: 100-00147-0

- ✔ Very low axial ratio
- ✔ IP-67 mounted and unmounted
- ✔ Ultra-light weight-45grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1621 MHz (Iridium)
Antenna element peak gain	2.0 dBic (Iridium)
Axial Ratio	0.25 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA male
Dimensions	135 mm (height) x 18.5 mm (diameter)

M1621HCT-P-SMA

High Performance Iridium Passive Antenna

Part #: 100-00003-02

- ✔ Very low axial ratio
- ✔ IP-67 mounted
- ✔ Ultra light weight - 11 grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz (Iridium)
Antenna element peak gain	2.8 dBic (Iridium)
Axial Ratio	0.2 dB (typical)/ 0.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design/ SMA male
Dimensions	48 mm (height) x 18.5 mm (diameter)

M1621HCT-P-EXT

Iridium Certified Passive External Magnet Mount Antenna

Part #: 100-00044-01/02/03/04

- ✔ Optimized for the Iridium network
- ✔ Very low axial ratio
- ✔ TNC, SMA, SMB, MCX connector
- ✔ Ground plane independent
- ✔ Magnet mount
- ✔ Ultra-light weight - 52 grams



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz (Iridium)
Antenna element peak gain	1 dBic (typical)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount /TNC, SMA, SMB, MCX connectors
Dimensions	52.20 mm (height) x 36 mm (diameter)



M1600HCT12-UFL

Thuraya helical Passive Antenna

Part #: 100-00108-01

- ✔ Very low axial ratio
- ✔ Ultra light weight - 11 grams
- ✔ Ground plan independent



Key electrical specifications:

Parameter	Specification
Frequency	1525 MHz - 1660.5 MHz
Antenna element peak gain	3.5 dBic @ 1540 MHz (typical) 3.5 dBic @ 1640 MHz (typical)
Axial Ratio	1.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	U. FL
Dimensions	100 mm (height) x 12 mm (diameter)



M1590HCT-HP-TH

Thuraya Rugged high-performance Antenna

Part #: 100-00137-01

- ✔ Optimized for Thuraya network
- ✔ Very low axial ratio
- ✔ IP66 and RoHS compliant
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1525 MHz - 1660.5 MHz
Antenna element peak gain	3.0 dBic (typical)
Axial Ratio	2.2 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	a mast mount design/TNC connector
Dimensions	125 mm (height) x 45 mm (diameter)



M1580HCT-SMA

Inmarsat high-performance Active Antenna

Part #: 100-00068-01

- ✓ Superior out-of-band rejection
- ✓ Very low axial ratio
- ✓ Pattern constant with frequency
- ✓ Ultra-light weight
- ✓ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1525 MHz - 1660.5 MHz
Antenna element peak gain	1.5 dBic @ 1540 MHz (typical) 1.5 dBic @ 1640 MHz (typical)
Axial Ratio	1.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Connector
Dimensions	51 mm (height) x 30 mm (diameter)



M1590HCT-LP-MM

Inmarsat Low Prole Antenna – Magnet Mount

Part #: 100-00183-02

- ✓ Very low axial ratio
- ✓ Ground plane independent
- ✓ Magnet mount
- ✓ 1,500 mm LRM100 coaxial cable
- ✓ TNC, SMA, SMB, MCX connector



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) / 1602 MHz (GLONASS)
Antenna Peak Gain	1.5 dBic (GPS) / 1.5 dBic (GLONASS)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount/ TNC, SMA, SMB, MCX connectors
Dimensions	52.20 mm (height) x 36 mm (diameter)



M1590HCT-LP-SM

Inmarsat Low Prole Antenna – Hole Mount

Part #: 100-00183-01

- ✓ Optimized for the Inmarsat Network
- ✓ IP66 and ROHS compliant
- ✓ Ground plane independent
- ✓ High gain & low axial ratio
- ✓ Through hole mount
- ✓ Low profile



Key electrical specifications:

Parameter	Specification
Frequency	1525-1560 MHz (GPS) 1625-1660MHz
Polarization	RHCP
Antenna Peak Gain	2 dBic
Axial Ratio	2.0:1

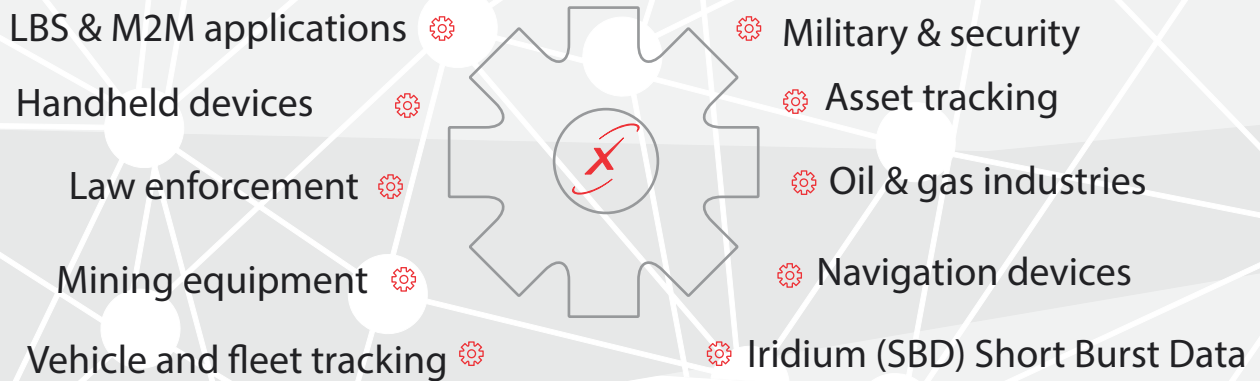
Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount/TNC connector
Weight	125 grams
Dimensions	Ø 79.5 x 38mm



Maxtena's line of Iridium antennas are fully **Iridium Network Certified** and designed to compliment a wide range of applications, including fleet, asset and personal tracking, handheld devices, satellite telephony, utility monitoring and more. Maxtena designs and manufactures advanced antenna solutions based on our patented Dynamic Aperture Technology™ (DAT). Our antennas empower our customers to develop unparalleled solutions for GNSS, Terrestrial and Satellite M2M and MSS applications.

Applications



IRIDIUM 9603 TRANSCEIVER

Iridium 9603 Transceiver

Part #: 100-00069-01

- ✓ Smallest form factor of any commercial satellite transceiver available
- ✓ Only 11.4 grams
- ✓ Single board transceiver
- ✓ Simple AT Command interface
- ✓ No SIM required
- ✓ Automatic notification that mobile-terminated messages are queued
- ✓ No SIM required



Key electrical specifications:

Parameter	Specification
Frequency	1616 to 1626.5 MHz
Duplexing method	TDD (Time Domain Duplex)
Input/output impedance	50Ω

Key mechanical specifications:

Parameter	Specification
Weight	11.4g
Dimensions	31.5 mm x Width: 29.6 mm x 8.1 mm

IRIDIUM 9602 TRANSCEIVER

Iridium 9602 Transceiver

Part #: 208-00001-02

- ✓ Single board transceiver
- ✓ No SIM required
- ✓ Designed to be incorporated in an OEM Solution
- ✓ GPS RF Pass-through technology
- ✓ Simple AT command interface



Key electrical specifications:

Parameter	Specification
Frequency	1616 to 1626.5 MHz
Duplexing method	TDD (Time Domain Duplex)
Input/output impedance	50Ω

Key mechanical specifications:

Parameter	Specification
Weight	30 g
Dimensions	41 mm x Width: 45 mm x 13 mm

IRIDIUM 9603 TRANSCEIVER

Iridium 9603 Transceiver

Part #: 208-00002-01

- ✓ Ultra-compact form factor
- ✓ Single-board transceiver
- ✓ Voice and Circuit Switched Data capable
- ✓ Larger SBD buer size than the 9602 or 9603
- ✓ Iridium Push-to-Talk options available
- ✓ Direct PCB integration
- ✓ Pole-to-pole global coverage
- ✓ FCC, Industry Canada, and ITU approval
- ✓ SMS
- ✓ LBS



Key electrical specifications:

Parameter	Specification
Frequency	1616 to 1626.5 MHz
Duplexing method	TDD (Time Domain Duplex)
Input/output impedance	50Ω

Key mechanical specifications:

Parameter	Specification
Weight	32 g
Dimensions	70.44 x 36.04 x 14.6 mm

Explore

the Iridium Edge® Pro,

GPS TRACKING SHORT BURST DATA (SBD)

Iridium Edge® Pro



Iridium Edge Pro offers a simplified way to innovate, customize, and deploy smarter solutions for remote asset management. Create customizable end-to-end monitoring solutions for vessels, vehicles, and remote equipment using Iridium's best in class two-way network and truly global coverage.

The Iridium Edge® Pro is a standalone device with Short Burst Data® (SBD) that offers real-time GPS tracking capabilities, and a flexible programming platform that allows developers to create and run their own custom-made applications. Example uses include fisheries, vessel and fleet management, and remote monitoring.



Benefits

Highly Mobile

The Iridium® satellite network provides communications and connectivity for mobile applications like oil and gas, transportation, agriculture and surface mining anywhere on the planet allowing tracking and monitoring of vehicles and assets operating in remote areas.

Reliable Coverage

Devices using the Iridium satellite network are enabled by a constellation of 66 Low-Earth Orbit (LEO) mobile satellites that provide service anywhere on the planet.

Low Latency

The Iridium satellites in Low-Earth Orbit (~800 km), enable signals to travel in 1/40 the time compared to geostationary satellites (36,000 km), resulting in low-latency, always-on connections ideal for Internet of Things (IoT) deployments.

Features

- ✓ Quick partner (VAR) development using Java
- ✓ Common services including geofencing, event logging and position reporting
- ✓ Easily paired with cellular solutions using programmable interfaces
- ✓ Standalone finished product for GPS tracking
- ✓ Programming over the air
- ✓ Eclipse based IDE and Virtual Device emulators
- ✓ Multiple interfaces: RS232, CANBus and BLE

IRIDIUM EDGE SOLAR

Iridium Edge Solar
Part #: 106-00002-01

- ✔ Bluetooth capability for wireless sensor integration and local device connectivity
- ✔ Over-the-Air Configuration Changes
- ✔ Interval and Scheduled Reporting Modes
- ✔ Start/Stop Reporting
- ✔ In Motion Reporting
- ✔ Fully Encapsulated, No External Connectors, Water Ingress Protected
- ✔ Accelerometer and Magnetometer
- ✔ LED Status Indicator



Key electrical specifications:

Parameter	Specification
Reliability	IPC9592a
Internal Non-rechargeable & Solar Chargeable Batteries	

Key mechanical specifications:

Parameter	Specification
Weight	470 grams
Dimensions	164.2 mm x 71.2 mm x 32.9 mm

IRIDIUM EDGE

Iridium Edge
Part #: 106-00002-01

- ✔ Connectivity beyond cellular limits for 100% global IOT coverage
- ✔ Hardware-ready device for simple, low risk integration
- ✔ Ready to install for quick time-to-market
- ✔ Robust power supply for industrial installations
- ✔ 180° line of site for compromised locations
- ✔ Iridium 9602 Transceiver
- ✔ Power Requirements: 9-32v input voltage
- ✔ Power Consumption (Average): Transmit Slot Max. 1.6W
- ✔ Power On Max. Current 0.5A
- ✔ Operational Max. Current 0.3A



Key electrical specifications:

Parameter	Specification
Iridium Devices	Iridium 9603 Short Burst Data modem Iridium Core 9523 Transceiver Iridium 9602 Transceiver

Key mechanical specifications:

Parameter	Specification
Weight	330 grams
Dimensions	130 x 80 x 30 mm

IRIDIUM EDGE PRO

GPS TRACKING SHORT BURST DATA (SBD)
Part #: 106-00001-01

- ✔ Quick partner (VAR) development using Java
- ✔ Common services including geofencing, event logging and position reporting
- ✔ Easily paired with cellular solutions using programmable interfaces
- ✔ Standalone finished product for GPS tracking
- ✔ Programming over the air
- ✔ Low-cost development kits available
- ✔ Eclipse based IDE and Virtual Device emulators
- ✔ Multiple interfaces: RS232, CANBus and BLE



Key electrical specifications:

Parameter	Specification
Frequency	1616 to 1626.5 MHz
Duplexing method	TDD (Time Domain Duplex)
Input/output impedance	50Ω

Key mechanical specifications:

Parameter	Specification
Weight	200 g
Dimensions	127 mm x 90 mm x 41 mm



Iridium Edge

Iridium Edge Pro

Iridium Edge Solar

	Iridium Edge	Iridium Edge Pro	Iridium Edge Solar
Form Factor	Standalone	Standalone with GPS, Java Programmable	Standalone with GPS, Configurable Profiles
Dimensions (L x W x H)	130 x 80 x 30 mm	127 x 90 x 41 mm	164 x 71 x 33 mm
Weight	330 g	200 g	470 g
Interfaces	AT+ Command, RS 232	4 I/O, CANbus, RS 232, RS 485	BLE
Power Requirements	9-32 V	7-32 V	Internal Non-rechargeable & Solar Chargeable Batteries
Power Consumption (Average)	Transmit Slot Max. 1.6W Power On Max. Current 0.5A Operational Max. Current 0.3A	Receive 0.6W GNSS +0.6W	Harvests Energy from the Sun
Operating Temperature	-40°C to +55°C	-40°C to +85°C	-40°C to +85°C
Environmental Specs	SAE J1455,* IP 67	SAE J1455,* IP 67	SAE J1455,* MIL-STD-910, IP 68
Typical Applications	Asset Tracking, Fleet Management, Environment & Safety Monitoring, Remote Automation & Control	Fisheries, Vessel & Fleet Management, Remote Monitoring	Oil & Gas, Transportation, Agriculture, Surface Mining, Asset & Vehicle Tracking
Development Kit	Yes	Yes	Yes
Services	SBD®	SBD®	SBD®
Average Latency	<20 Seconds Per 340 Bytes (MO)	<20 Seconds Per 340 Bytes (MO)	<20 Seconds Per 340 Bytes (MO)
Certifications*	US (FCC), EU (CE Mark)	US (FCC), EU (CE Mark)	US (FCC), EU (CE Mark)
Data Speed	2.4 Kbps	2.4 Kbps	2.4 Kbps



M9523N-KIT

Iridium 9523N Developer Kit

Part #: 401-00005-01

- ✔ M9523N Test Interface Card
- ✔ 2x 9523N Core Modules
- ✔ 2x SIM Cards
- ✔ Supplied Mounting Screws
- ✔ AC/DC Power Adapter
- ✔ Kit contains an antenna



Key mechanical specifications:

Parameter	Specification
Dimensions	70.44 mm x 36.04 mm



M9602N-KIT

Iridium 9602N Developer Kit

Part #: 401-00003-01

- ✔ 9602N SBD Module
- ✔ AC Adapter (with international connectors)
- ✔ Test Interface Card (the development board itself)
- ✔ 9602N Development CD – which contains a test tool and all the documentation one would need to get started
- ✔ Mounting Screws & PCB Spacers/Risers
- ✔ Kit contains an antenna



Key mechanical specifications:

Parameter	Specification
Dimensions	31.5 mm x 29.6 mm x 8.10 mm



M9603N-KIT

Iridium 9603N Developer Kit

Part #: 401-00004-01

- ✔ 9602N SBD Module
- ✔ AC Adapter (with international connectors)
- ✔ Test Interface Card (the development board itself)
- ✔ 9602N Development CD – which contains a test tool and all the documentation one would need to get started
- ✔ Mounting Screws & PCB Spacers/Risers
- ✔ Kit contains an antenna



Key mechanical specifications:

Parameter	Specification
Dimensions	31.5 mm x 29.6 mm x 8.10 mm

SatFleet

Low Profile, Iridium Certified, Active GPS Fleet Antenna for Iridium Voice/Data and GPS

Part #: 100-00045-01

- ✓ Superior Iridium Voice/Data performance
- ✓ Iridium ground plane independent
- ✓ High performance helix Iridium antenna
- ✓ Rugged IP-67 housing
- ✓ Low profile with screw mount
- ✓ Superb low elevation performance
- ✓ Low weight



Key electrical specifications:

Parameter	Specification
Frequency	1621 MHz 1575.42 MHz
Antenna element peak gain	1.4dBic (typical) @ broadside 5.5 dBic
Axial Ratio	1.5 dB (typical) 1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design
Dimensions	61 x 50 x 116 mm

SatFleet 3in1

Low Profile, Iridium Certified, Active GPS Fleet Antenna for Iridium Voice/Data and GPS

Part #: 100-00131-01

- ✓ Superior Iridium Voice/Data performance
- ✓ Iridium ground plane independent
- ✓ High performance helix Iridium antenna
- ✓ Rugged IP-67 housing
- ✓ Low profile with screw mount
- ✓ Superb low elevation performance
- ✓ Low weight



Key electrical specifications:

Parameter	Specification
Frequency	1621 MHz 1575.42 MHz 1602 MHz (Glonass)
Antenna element peak gain	1.6 dBic (typical) @ broadside 5.5 dBic 5.5 dBic
Axial Ratio	1.7 dB (typical) 1.5 dB (typical) / 2.5 dB (max) 1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design
Dimensions	61 x 50 x 116 mm

M1621HCT-P-SMA

High Performance Iridium Passive Antenna

Part #: 100-00003-02

- ✓ Very low axial ratio
- ✓ IP-67 mounted
- ✓ Ultra light weight - 11 grams
- ✓ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz (Iridium)
Antenna element peak gain	2.8 dBic (Iridium)
Axial Ratio	0.2 dB (typical) / 0.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design/ SMA male
Dimensions	48 mm (height) x 18.5 mm (diameter)

Discover

Our best- seller

M1621HCT-P-EXT, Iridium Certified Passive External Magnet Mount Antenna

M1621HCT-P-EXT

The M1621HCT-EXT is a high-performance Iridium certified passive external magnet mount antenna designed for wireless applications. The antenna is built on proprietary Maxtena Helicore® technology.

This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor.

The M1621HCT-EXT is an external magnet mount antenna, featuring a 1,500 mm LRM100 coaxial cable with integrated connector. The very small size and light weight make this helical Iridium antenna unique in the market and perfect for various commercial and industrial applications.

This antenna is the ideal solution for the most extreme and demanding applications where reliable satellite reception and high accuracy are required. It can be used to boost the performance of the Iridium handsets among other uses.

For the embedded version, Maxtena provides support for installation and integration of the embedded antenna to offer an exceptional antenna performance. Maxtena can embed the antenna in any housing, then tune the antenna to match their housing's materials, electronics, and space.



Features

- ✓ Optimized for the Iridium network Very low axial ratio
- ✓ TNC, SMA, SMB, MCX connector Ground plane independent
- ✓ Magnet mount
- ✓ Ultra-light weight - 52 grams

Suggested Applications include:

- ✓ Vehicle and fleet tracking
- ✓ Military & security
- ✓ Asset tracking
- ✓ PDAs and laptops
- ✓ Oil & gas industries
- ✓ Navigation devices
- ✓ Law enforcement
- ✓ LBS & M2M applications
- ✓ Iridium (SBD) Short Burst Data

M1621HCT-P-EXT

Iridium Certified Passive External Magnet Mount Antenna

Part #: 100-00044-01/02/03/04

- ✔ Optimized for the Iridium network
- ✔ Very low axial ratio
- ✔ TNC, SMA, SMB, MCX connector
- ✔ Ground plane independent
- ✔ Magnet mount
- ✔ Ultra-light weight - 52 grams



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz (Iridium)
Antenna element peak gain	1 dBic (typical)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount / TNC, SMA, SMB, MCX connectors
Dimensions	52.20 mm (height) x 36 mm (diameter)

M1610HCT-GN

GPS GLONASS Iridium Passive Antenna

Part #: 100-00149-01

- ✔ Very low axial ratio
- ✔ IP-67 mounted and unmounted
- ✔ Ultra-light weight-45grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (Glonass) 1621 MHz (Iridium)
Antenna element peak gain	3.8 dBic (GPS) -1.7 dBic (Glonass) 2.0 dBic (Iridium)
Axial Ratio	0.2 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA male
Dimensions	135 mm (height) x 18.5 mm (diameter)

M1600HCT-P-SMA

High Performance Iridium/GPS/GLONASS Passive Antenna

Part #: 100-00003-02

- ✔ Very low axial ratio
- ✔ IP-67 mounted and unmounted
- ✔ Ultra-light weigh- 11grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz (Iridium) 1575 MHz (GPS) 1602 MHz (GLONASS)
Antenna element peak gain	2.8 dBic (Iridium) -3 dBic (GPS) 0 dBic (GLONASS)
Axial Ratio	0.5 dB (typical) / 1 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	48 mm (height) x 18.5 mm (diameter)

M1600HCT-P-UFL

High Performance Iridium Passive Embedded Antenna

Part #: 100-00032-01

- ✔ Very low axial ratio
- ✔ Iridium bands
- ✔ Ultra light weight - 3 grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz (Iridium)
Antenna element peak gain	2.8 dBic (Iridium)
Axial Ratio	0.2 dB (typical) / 0.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design
Dimensions	61 x 50 x 116 mm

M1610HCT-GN

GPS GLONASS Iridium Passive Antenna

Part #: 100-00149-01

- ✔ Very low axial ratio
- ✔ IP-67 mounted and unmounted
- ✔ Ultra-light weight-45grams
- ✔ Ground plane independent



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (Glonass) 1621 MHz (Iridium)
Antenna element peak gain	3.8 dBic (GPS) -1.7 dBic (Glonass) 2.0 dBic (Iridium)
Axial Ratio	0.2 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA male
Dimensions	135 mm (height) x 18.5 mm (diameter)

MEA-1621-SM

External Iridium Passive Antenna – Screw Mount

Part #: 189-00060-01

- ✔ Frequency coverage: 1616-1627 MHz
- ✔ Easy mounting: Screw Mount
- ✔ Optimized for Iridium network
- ✔ High Performance
- ✔ Ground Plane Independent
- ✔ Anti-Rotation Mechanism
- ✔ Customizable Cable and Connector
- ✔ ROHS Certified
- ✔ Small size: Dimensions 80 x 74 x 25.6 mm
- ✔ Rugged housing
- ✔ IP69 /IP67



Key electrical specifications:

Parameter	Specification
Frequency	1616-1627 MHz
Antenna element peak gain	4.5 dB
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 x 74 x 43 mm



MEA-1621-GGG

External Iridium Passive Antenna – Screw Mount

Part #: 100-00098-01

- ✔ Optimized for GPS/GLONASS/IRIDIUM/ Cellular networks
- ✔ Easy mounting
- ✔ 1m cable length RG-174, CFD-200 cables
- ✔ Rugged housing
- ✔ Customer specification connectors
- ✔ IPX7 waterproof housing



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz / 1602 MHz 824-960 MHz / 1710-2170 MHz 1621 MHz
Antenna element peak gain	2dBi Typ. @1575MHz / 2.5dBi Typ. @1602MHz -0.56~-2.69dBi@824~960MHz 1.69~-5.2dBi@1710~2170MHz 3.5dBic Min. @1621MHz
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	Diameter 145 x (H) 32.8 mm



MEA-1600-SM

External Iridium/GNSS Passive Antenna – Screw Mount

Part #: 189-00059-01

- ✔ 2in1 antenna: GPS/GLONASS/Galileo and Iridium
- ✔ High performance
- ✔ Low Profile
- ✔ Cable 1: GPS/GLONASS /Galileo - 1575-1606 MHz
- ✔ Cable 2: Iridium - 1616-1627 MHz
- ✔ Easy mounting: Screw Mount
- ✔ Iridium certified antenna
- ✔ Anti-Rotation Mounting Customizable
- ✔ Cable and Connector
- ✔ Low profile 80 × 74 × 25.6 mm
- ✔ IP69



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz / 1602 MHz
Antenna element peak gain	28 dB @ 2.7 V
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 × 74 × 25.6 mm



MEA-LGI-SMA

5G NR & Iridium GNSS Antenna – Screw Mount

Part #: 189-00059-01

- ✔ 3in1 antenna: 5G NR, Iridium and GNSS
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Anti-Rotation Mounting
- ✔ Optimized for Iridium network
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Low profile 80 × 74 × 25.6 mm
- ✔ IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz 1427-2690 MHz 3300-5000 MHz 5150-5925 MHz 1616 - 1627 MHz 1559 - 1608 MHz
Antenna element peak gain	2.3 dBi 5.1 dBi 2.6 dBi 2.7dBi 5.2 dBic 28 dB @ 2.7 V
Polarization	Linear

Key mechanical specifications:

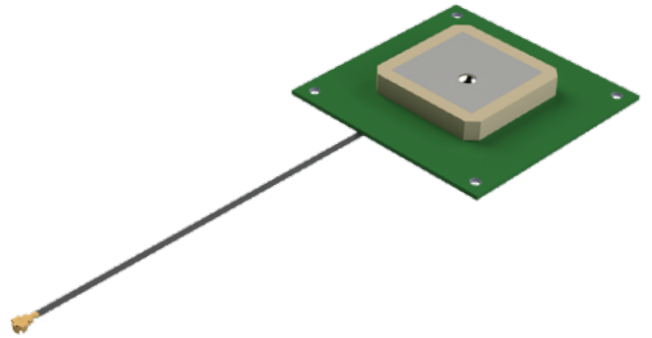
Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 × 74 × 25.6 mm

Our exclusive Iridium Passive Antenna

MPA-D254-1621

Our patch antenna offerings are perfect for projects with a smaller scope and budget for which high-performance and lower weight is not a primary factor for consideration for the antenna. They are ideal for less demanding applications where extreme performance and battery life can be sacrificed at the expense of device cost.

The antenna MPA-D254-1621 product designed for Iridium-based embedded applications, and is used in GPS handheld units, mobile devices, and tracking devices. It features higher upper hemisphere efficiency and a lower axial ratio as compared to regular patch antennas. The antenna comes standard with a 100 mm cable and U. FL connector, custom alternatives can be requested.



Features

- ✓ Iridium frequency band
- ✓ U. FL connector or other
- ✓ Compact size
- ✓ Custom tuning

Suggested Applications include:

- ✓ Vehicle and fleet tracking
- ✓ Military & security
- ✓ Asset tracking
- ✓ Iridium (SBD) Short Burst Data
- ✓ Oil & gas industries
- ✓ Navigation devices
- ✓ Mining equipment
- ✓ LBS & M2M applications
- ✓ Handheld devices

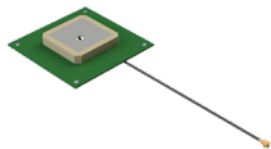


MPA-D254-1621

Iridium Passive Antenna – 25mm

Part #: 100-00024-02

- ✔ Iridium frequency band
- ✔ U. FL connector or other
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz
Antenna element peak gain	2.5 dBic
Axial Ratio	4 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	U. FL connector
Dimensions	25 mm x 25 mm x 4 mm

Microstrip Patch Antennas



Microstrip Patch Antennas

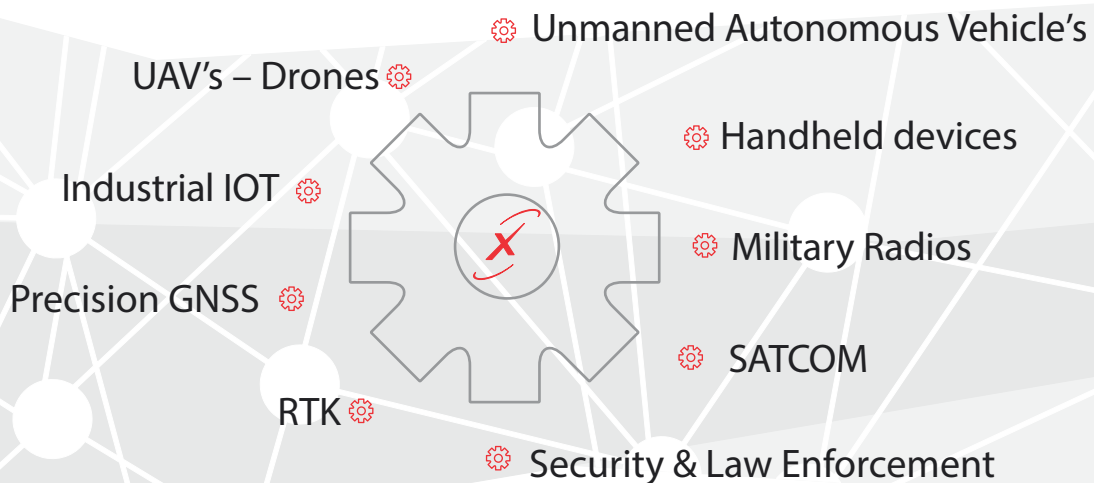


MAXTENA®

We offer a large portfolio of both active and passive advanced conformal wave microstrip antennas. The antennas are available in several different sizes and configurations depending on customer requirements. This included externally mounted and or embedded antenna solutions.

The active antennas can be customized with different filtering, LNA, cable lengths and connectors upon request. All of our microstrip antennas offer high performance with a very low profile. The antennas are ideal for various professional IOT applications. The compact size and lightweight features of the microstrip antennas make them perfect for various commercial and industrial uses. By utilizing various RF and material advances, Maxtena is the leader in conformal antenna solutions used for IOT, Automotive and Autonomous applications.

Applications



Our best seller

L1 PASSIVE GPS MICROSTRIP ANTENNA

MPA-254

The MPA-254 is a 25 mm ceramic GPS passive patch antenna based on Maxtena technology.

Our patch antenna offerings are perfect for projects with a smaller scope and budget for which high-performance and lower weight is not a primary factor for consideration for the antenna. This antenna is designed for embedded applications such as GPS handheld units, mobile devices, and tracking devices. It features higher upper hemisphere efficiency and a lower axial ratio as compared to regular patch antennas.

The MPA-254 ceramic patch antenna is a low profile (25x25x4mm), designed for combined GPS applications. The MPA-254 is designed to provide excellent performance in the 1575.42 range frequency.

This 25 mm square embedded ceramic patch offers a typical peak gain of 5.5 dBi for frequency covered. The interface connector is mounted through pin solution, and double-sided adhesive.

Maxtena offers custom tuning service based on customer request depending on the customer device and ground plane mounting.



Features

- ✓ GPS L1 frequency
- ✓ Adhesive mounting
- ✓ Pin-Connector
- ✓ Compact size
- ✓ Custom tuning 25 mm x
- ✓ 25 mm x 4 mm
- ✓ Realized gain: 5.5 dBic

Suggested Applications include:

- ✓ Vehicle and fleet tracking
- ✓ Military & security
- ✓ Asset tracking
- ✓ Iridium (SBD) Short Burst Data
- ✓ Oil & gas industries
- ✓ Navigation devices
- ✓ Mining equipment
- ✓ LBS & M2M applications
- ✓ Handheld devices



MPA-104-C

GPS Passive Antenna – 10mm

Part #: 189-00008-01

- ✔ GPS L1 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1583-1597 MHz
Gain at Zenith	-3.5 dBic typ.
Axial Ratio	1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	10 mm x 10 mm x 4.76 mm

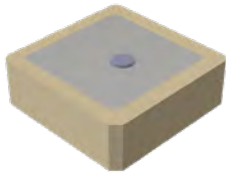


MPA-124-C

GPS Passive Antenna – 12mm

Part #: 189-00079-01

- ✔ GPS L1 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain at Zenith	-3.0 dBic typ
Axial Ratio	1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	12 mm x 12 mm x 4.2 mm



MPA-134-GPS

GPS Passive Antenna – 12mm

Part #: 189-00056-01

- ✔ GLONASS frequency
- ✔ Easy mounting
- ✔ Pin-Connector
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Ground Plane Dependent
- ✔ Dimensions 13 x 13 x 4 mm



Key electrical specifications:

Parameter	Specification
Frequency	1595 - 1610 MHz
Gain at Zenith	-1.5 dBic typ.
Axial Ratio	5 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	13mm x 13mm x 4mm



MPA-152-C

GPS Passive Antenna – 15mm x 2mm

Part #: TBD

- ✔ GPS L1 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain at Zenith	-2.0 dBic typ.
Axial Ratio	3 dB typ.

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	15 mm x 15 mm x 2.2 mm



MPA-154-C

GPS Passive Antenna – 15mm

Part #: 189-00081-01

- ✔ GPS L1 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain at Zenith	-1.0 dBic typ
Axial Ratio	3 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	15 mm x 15 mm x 4.2 mm



MPA-182-C

GPS Passive Antenna – 18mm x 2mm

Part #: 189-00052-01

- ✔ GPS L1 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1595 - 1610 MHz
Gain at Zenith	-1.5 dBic typ.
Axial Ratio	5 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	25 mm x 25 mm x 2.2 mm

MPA-184-C

GPS Passive Antenna – 18mm
Part #: 189-00082-01

- ✔ GPS L1 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1573 - 1585 MHz
Gain at Zenith	+2.5 dBic typ
Axial Ratio	3 dB typ.

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	18 mm x 18 mm x 4.26 mm

MPA-254

GPS Passive Antenna – 25mm
Part #: 189-00003-01

- ✔ GPS L1 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain at Zenith	5.5 dBic
Axial Ratio	1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	25 mm x 25 mm x 4 mm

MPA-258-L1-L5

L1 L5 GPS Embedded Antenna – 25mm
Part #: 189-00057-01

- ✔ GPS L1 L5 frequency
- ✔ Dual stacked patch
- ✔ Thru-Hole Mount
- ✔ Compact size
- ✔ Ceramic Material
- ✔ Advanced Ceramic Materials
- ✔ High Performance



Key electrical specifications:

Parameter	Specification
Frequency	(L1) 1575.42 ± 1.023 MHz (L5) 1176.45 ± 12 MHz
Gain at Zenith	1.8 dB i typ. 0.5 dB i typ.
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Thru-Hole Mount
Dimensions	25 mm x 25 mm x 8 mm



MPA-356-1516

Passive GPS GLONASS Beidou Antenna – 35mm x 6mm

Part #: 189-00049-01

- ✔ GPS, GLONASS, Beidou frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	GPS: 1575.42 MHz \pm 1.023 MHz GLONASS: 1602 MHz \pm 5 MHz Beidou: 1561.098 MHz \pm 2.046 MHz
Realized gain	GPS: +3.7 dBi typ. GLONASS: +4.9 dBi typ. Beidou: +5.2 dBi typ.
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
18 mm x 18 mm x 4 mm	35 mm x 35 mm x 6 mm

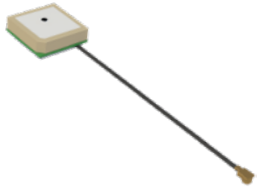


MPA-406-1227

Passive GPS L2 Antenna – 40.5mm x 6.5mm

Part #: 189-00047-01

- ✔ GPS L2 frequency
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1227.6 \pm 10 MHz
Gain at Zenith	-3.8 dBi typ
Axial Ratio	3 typ.

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	40.5mm x 40.5mm x 6.5mm

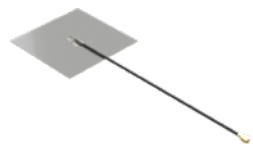


MEA-1176-AM

GNSS – L1/L2/L5/L6 Adhesive mount antenna

Part #: 100-00199-01

- ✔ Low profile: 45.4 x 45.4 x 0.2 mm
- ✔ Easy mounting: Self-Adhesive
- ✔ Multi-Band-Constellation
- ✔ Flexible Material
- ✔ High Performance
- ✔ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	1561.09, 1575.42, 1602 MHz (L1) 1227.6, 1246 MHz (L2) 1176.45, 1207.14 MHz (L5) 1268.52, 1278.75 MHz (L6)
Antenna element peak gain	4.9 dBi (L1) 3.1 dBi (L2) 3.2 dBi (L5) 2.9 dBi (L6)
Radiation pattern	Hemispherical

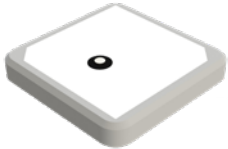
Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Adhesive /U.FL Standard (Other Connectors Available)
Dimensions	45.4 x 45.4 x 0.2 mm

MPA-356-1575 **GPS MICROSTRIP ANTENNA**

Part #: 189-00049-02

- Adhesive mounting Pin connector Compact size Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz \pm 1.023 MHz
Gain at Zenith	+3.7 dBi typ.
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector/ Adhesive mount
Dimensions	35 x 35 x 6mm

MIA-GPS-10-C

GPS Active Antenna – 10mm

Part #: 189-00072-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector / cable size



Key electrical specifications:

Parameter	Specification
Frequency	1.575GHz 1575.42 MHz
Gain at Zenith	-3 dBic (typ.)
Axial Ratio	≤ 4.0dB

Key mechanical specifications:

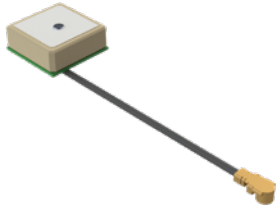
Parameter	Specification
Mounting option / Connector	I-PEX
Dimensions	10 mm x 10 mm x 5.9 mm

MIA-GPS-12-C

GPS Active Antenna – 12mm

Part #: 189-00073-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector / cable size



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain at Zenith	-4.5 dBic typ.
Axial Ratio	≤4.0dB

Key mechanical specifications:

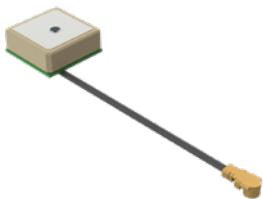
Parameter	Specification
Mounting option / Connector	I-PEX
Dimensions	12 mm x 12 mm x 6 mm

MIA-GPS-12-HC

High Current GPS Active Antenna – 12mm

Part #: 189-00039-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector / cable size



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain at Zenith	-4.5 dBic typ.
Axial Ratio	≤4.0dB

Key mechanical specifications:

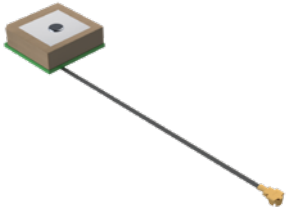
Parameter	Specification
Mounting option / Connector	I-PEX
Dimensions	12 mm x 12 mm x 4 mm

MIA-GPS-15-C

GPS Active Antenna – 15mm

Part #: 189-00070-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector/Cable size
- ✔ Excellent out-of-band signal rejection
- ✔ Ideal antenna solution for RTK systems



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain at Zenith	5dBic
Axial Ratio	≤ 5dB

Key mechanical specifications:

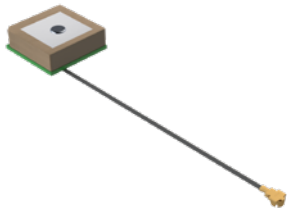
Parameter	Specification
Mounting option / Connector	I-PEX
Dimensions	15x15x4 mm

MIA-GPS-15-HC

GPS Active Antenna – 15mm

Part #: 189-00040-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector/Cable size



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz ± 10 MHz (L1)
Gain (LNA)	26 dB
Axial Ratio	1.5 dB (typical) / 2.5 dB (max)

Key mechanical specifications:

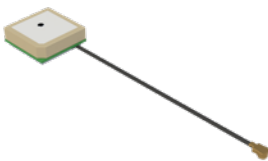
Parameter	Specification
Mounting option / Connector	SMA female straight connector or other
Dimensions	16.38 mm x 16.38 mm x 4.89 mm

MIA-GPS-18-C

GPS Active Antenna – 18mm

Part #: 189-00074-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector/Cable size



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Gain	0 dBic typ. @ zenith ≥23dB, 25dB (typ.)
Axial Ratio	≤4 dB

Key mechanical specifications:

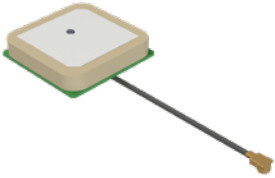
Parameter	Specification
Mounting option / Connector	I- PEX (F)
Dimensions	18mm x 18mm x 6.5 mm

MIA-GPS-25-C

GPS Active Antenna – 25mm

Part #: 189-00075-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector/Cable size



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Antenna element peak gain	+ 5.0 dBic @ Zenith 30±3dB
Axial Ratio	≤ 3.0dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	I-PEX
Dimensions	25.1 mm x 25.1 mm x 7.4 mm

Discover

M9708CWT, our new

L1 L2 L5 Multi-Frequency Active Antenna

M9708CWT

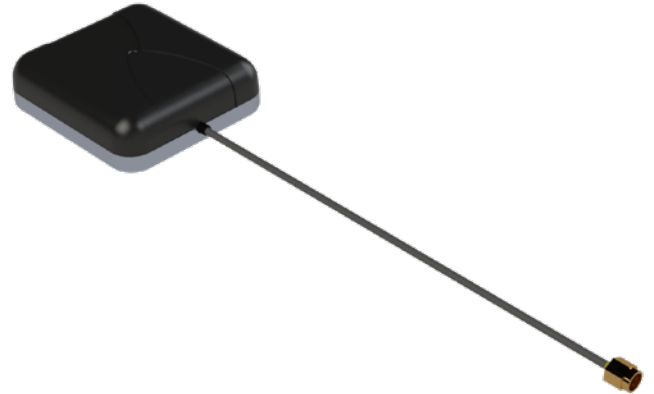
Maxtena Releases the M9708CWT a Rugged Low Profile Multi-Frequency GNSS Antenna for SATCOM Applications.

The new active conformal wave antenna is unrivaled in performance and capabilities, able to operate across the L1/L2 GPS, GLONASS, Galileo and Beidou bands with superior precision.

The M9708CWT antenna is designed using Maxtena's proprietary Optimized Microstrip Technology, a technology that uses an electromagnetically co-optimized antenna and ground plane combination to enhance the performance of an antenna system.

The M9708CWT antenna is a high accuracy, multi-frequency active conformal wave GNSS antenna. The revolutionary design features concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, GLONASS L3OC, and L2 OF in a rugged, compact, and ultra-lightweight form factor. The antenna is a perfect match for GNSS applications where size, performance, and cost drive antenna selection. The M9708CWT is built on Maxtena's proprietary Optimized Microstrip Technology, which features 40% better efficiency and 3 dB improved axial ratio purity compared to competitor patch technology. Maxtena's M9708CWT has unique features that make it the best option for high-accuracy GNSS applications. It offers a low axial ratio not only at the zenith, but also in other elevation angles ensuring multipath error is mitigated. With the M9708CWT full hemispherical coverage is achieved by an exceptionally large 3 dB beamwidth, ensuring the full view of sky and satellites at lower elevation angles.

The M9708CWT will be available either as an off-the-shelf antenna housed in rugged automotive grade PCB plastic with automatic grade electronics or as an embedded antenna option which is mounted on the inside of a customer's designed enclosure.



Maxtena's CEO Stani Licul said, "Maxtena has developed a very capable platform that can address many existing challenges in the GNSS market segment. Our M9708CWT uses advanced materials to achieve maximum bandwidth and RF with super low group delay characteristics. The advanced materials used can be conformal to different surfaces thus providing a very attractive solution for the automotive, IOT and autonomous markets. The M9708CWT provides the most optimal balance in terms of efficiency, size, and power."



Features

- ✓ Low profile design
- ✓ Rugged IP67 rating
- ✓ Small form factor
- ✓ GIS, RTK and other high accuracy GNSS applications
- ✓ Minimal phase center variation over azimuth and elevation
- ✓ Negligible group delay variation
- ✓ Automotive grade housing

Suggested Applications include

- ✓ Vehicle and fleet tracking
- ✓ Military & security
- ✓ Asset tracking
- ✓ Oil & gas industries
- ✓ Mining equipment
- ✓ LBS & M2M applications

Multi-Frequency Active Microstrip Antenna

External



MEA-1227-SM

GNSS/L1L2 Screw Mount

Part #: 189-00062-01

- ✓ Pre-Filter
- ✓ Low Noise Figure
- ✓ Low Power Consumption
- ✓ Customizable Cable and Connector
- ✓ Dimension 80 x 74 x 25.6 mm
- ✓ Anti-Rotation Mechanism
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	1227.6 MHz (L2) 1561-1606 MHz (L1)
Antenna element peak gain	3.4 dBi (L2) 5.3 dBi (L1)
Axial Ratio	≤ 3dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount /SMA Male
Dimensions	80 x 74 x 25.6 mm



MEA-1227-MM

GNSS/L1L2 Magnet Mount

Part #: 100-00202-01

- ✓ Superb out of band rejection
- ✓ Outstanding filtering
- ✓ High Precision
- ✓ Easy mounting: Magnetic Mount
- ✓ Low Profile - Ø 54 x 21.5 mm
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	1227.6 MHz (L2) 1561-1606 MHz (L1)
Antenna element peak gain	4.9 dBi (L2) 4.4 dBi (L1)
Axial Ratio	≤ 3dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount /SMA Male
Dimensions	Ø 54 x 21.5 mm



M1559CWT

L1 GPS GLONASS Active Multi-Frequency Antenna – External

Part #: 100-00118-01

- ✓ Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou
- ✓ Low profile design
- ✓ Rugged IP67 rating
- ✓ Small form factor
- ✓ Low power consumption
- ✓ Minimal phase center variation over azimuth and elevation
- ✓ Negligible group delay variation
- ✓ Automotive grade



Key electrical specifications:

Parameter	Specification
Frequency	1559-1610 MHz (L1, E1, B1, B1-2, G1)
Realized gain	3.3 dB
Axial Ratio	Max 2.7 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, SMB, MCX (customer choice)
Dimensions	75mm x 70mm x 23 mm

Multi-Frequency Active Microstrip Antenna

External



M9706CWT

L1/L2 GPS GLONASS Active Multi-Frequency Antenna – External

Part #: 100-00090-01

- ✔ Low profile design
- ✔ Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, and GLONASS L3OC
- ✔ Rugged IP67 rating
- ✔ Small form factor
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Minimal phase center variation over azimuth and elevation
- ✔ Negligible group delay variation
- ✔ Automotive grade housing



Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Realized gain	2.6 dB 3.3 dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, SMB or MCX (customer's choice)
Dimensions	75mm x 70mm x 23 mm



M9708CWT

L1/L2/L5 GPS GLONASS Active Multi-Frequency Antenna – External

Part #: 108-00060-02

- ✔ Low profile design
- ✔ Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, and GLONASS L3OC
- ✔ Rugged IP67 rating
- ✔ Small form factor
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Minimal phase center variation over azimuth and elevation
- ✔ Negligible group delay variation
- ✔ Automotive grade housing



Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1) 1164-1189 MHz (L5, E5A)
Realized gain	2.6 dB 3.3 dB -2dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith Max 3 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, SMB or MCX connector
Dimensions	75mm x 70mm x 23 mm

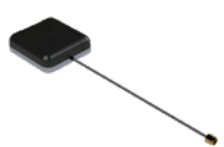


M1593CWT

L1/L2/L5 GPS GLONASS + L-Band- Active Multi-Frequency Antenna – External

Part #: 100-00191-01

- ✔ Small form factor
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low Power Consumption
- ✔ Minimal phase center variation over azimuth and elevation
- ✔ Negligible group delay variation
- ✔ Automotive grade housing



Key electrical specifications:

Parameter	Specification
Frequency	197-1249 MHz 1559-1606 MHz 1539 - 1559 MHz
Realized gain	2.6 dB @1197-1249 MHz 3.3 dB @1559-1606 MHz 1.5 dB @1539 - 1559 MHz
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic base, fixed installation option/ SMA, SMB, MCX
Dimensions	75mm x 70mm x 23 mm

Multi-Frequency Active Microstrip Antenna

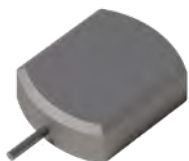
External

MEA-GPS-GG

GPS GLONASS Active External Antenna

Part #: 189-00015-01

- ✔ GPS/GLONASS coverage
- ✔ Active LNA circuitry
- ✔ Waterproof housing
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1590 MHz
Total system peak gain	30 dB @ 2.5 V / 32 dB @ 5 V
Axial Ratio	1 dB (min)

Key mechanical specifications:

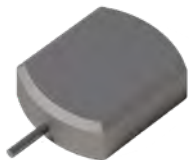
Parameter	Specification
Mounting option / Connector	SMA, TNC or other
Dimensions	48 mm x 39 mm x 14 mm

MEA-GPS-S

GPS Active External Antenna

Part #: 189-00016-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Waterproof housing
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Total system peak gain	28 dB @ 2.5 V / 30 dB @ 5 V
Axial Ratio	2.5 dB (min)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, TNC or other
Dimensions	48 mm x 39 mm x 14 mm

MEA-GPS-SM

GPS Active External Antenna

Part #: 189-00017-01

- ✔ GPS L1 frequency
- ✔ Active LNA circuitry
- ✔ Waterproof housing
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz
Total system peak gain	26 dB @ 2.5 V / 28 dB @ 5 V
Axial Ratio	2 dB (min)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, TNC or other
Dimensions	Ø 46.5 x 29.93 mm

Multi-Frequency Active Microstrip Antenna

External



MEA-5IG-MA

5GNR, Iridium and GNSS Magnetic/Adhesive Mount

Part #: 100-00206-01

- ✔ Easy mounting: Magnetic/Adhesive Mount
- ✔ Iridium Certified
- ✔ Low Profile
- ✔ High Performance
- ✔ Pre-Filtered GNSS
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions 89 × 76 × 27/30 mm
- ✔ IP67, IP69



Key electrical specifications:

Parameter	Specification	
Cable1	Frequency	617-960 MHz/1427-2690 MHz 3300-5000 MHz/5150-5925 MHz
	Antenna element peak	2.3 dBi / 5.1 dBi / 2.6 dBi / 2.7 dBi
Cable2	Frequency	1616-1627 MHz
	Antenna element peak	5.2 dBi
Cable3	Frequency	1575.42 MHz / 1602 MHz
	Antenna element peak	28 dB @ 2.7 / 28 dB @ 2.7
Bandwidth	Omni-directional / Hemispherical	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic/Adhesive Mount/ SMA Male
Dimensions	89 × 76 × 27/30 mm



MEA-LWIG-SM

5GNR, 2.4/5.0/6.0 GHz ISM, Iridium & GNSS Antenna – Screw Mount

Part #: 100-00164-01

- ✔ 4in1 antenna (5GNR, 2.4/5.0/6.0 GHz ISM, Iridium and GPS/GLONASS/QZSS/Galileo)
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Customizable Cable and Connector
- ✔ Dimensions Ø 146 x 31.5 mm
- ✔ IK09, IP67, IP69K



Key electrical specifications:

Parameter	Specification	
Cable 1.	Frequency	617-960 MHz / 1427-2690 MHz 3300-5000 MHz / 5150-5925 MHz
	Peak gain	-1.7 dBi/-1.7 dBi / -1.3 dBi/ 0.6 dBi
	Efficiency	19.7% / 17.5% / 13.3% / 15.9%
	VSWR	3.3:1 / 2.3:1 / 2.1:1 / 1.7:1
Cable 2.	Frequency	2410-2490 MHz / 4920-5925 MHz / 5925-7125 MHz
	Peak gain	1.2 dBi / 0.0 dBi / 5.2 dBi
	Efficiency	30.5% / 13.8% / 52.1%
	VSWR	1.4:1 / 1.6:1 / 2.5:1
Cable 3.	Frequency	1616-1627 MHz
	Peak gain	4.5 dBic
	Efficiency	76%
	VSWR	1.2:1
Cable 4.	Frequency	1575.42 MHz / 1598-1606 MHz
	Active gain	28 dB @ 2.7 V
	Noise figure	1.8 dB @ 2.7 V
	Power consumption	24.3 mW@2.7 V

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 146 x 31.5 mm

Multi-Frequency Active Microstrip Antenna

External



MEA-5GGG-SM

5G NR and GPS/GLONASS Screw Mount

Part #: 100-00204-01

- ✓ 5G NR & GPS/GLONASS/QZSS/Galileo frequency coverage
- ✓ Easy Mounting: Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Low Profile
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions 80 × 74 × 25.6 mm
- ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1427-2690 MHz 3300-5000 MHz 5150-5925 MHz 1575.42 MHz 1602 MHz
Antenna element peak gain	2.3 dBi@698-960 MHz 2.6 dBi @3300-5000 MHz 28dB @ 2.7 V @1575.42 MHz 5.1 dBi@1427-2690 MHz 2.7 dBi @5150-5925 MHz 28dB @ 2.7 V @1602 MHz
Radiation pattern	Omni-directional / Hemispherical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 × 74 × 25.6 mm



Multi-Frequency Active Microstrip Antenna

Embedded



M9706CWT-UFL

L1/L2 GPS GLONASS Active Multi-Frequency Antenna – Embedded

Part #: 108-00060-02

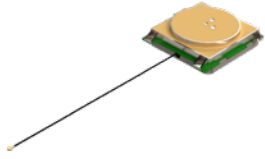
- ✔ Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, GLONASS L30C, and L2 OF
- ✔ Low profile design
- ✔ Conformal materials
- ✔ Full active design with superb filtering
- ✔ Small form factor
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low power consumption
- ✔ Minimal phase center variation over azimuth and elevation
- ✔ Negligible group delay variation

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Realized gain	2.6 dB 3.3 dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	65mm x 65mm x 17 mm



M9708CWT-UFL

L1/L2/L5 GPS GLONASS Active Multi-Frequency Antenna – Embedded

Part #: 108-00060-02

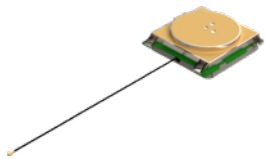
- ✔ Low profile design
- ✔ Concurrent GNSS reception on L1: GPS GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, and GLONASS L30C
- ✔ Small form factor
- ✔ GIS, RTK and other high accuracy GNSS Applications
- ✔ Low power consumption
- ✔ Minimal phase center variation over azimuth and elevation
- ✔ Negligible group delay variation
- ✔ Custom tuned to applications enclosure

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1) 1164-1189 MHz (L5, E5A)
Realized gain	2.6 dB 3.3 dB -2dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith Max 3 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	65mm x 65mm x 17 mm



Multi-Frequency Active Microstrip Antenna

Embedded



M1593CWT-UFL

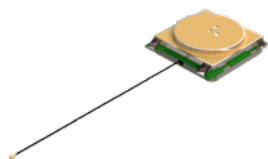
L1/L2/L5 GPS GLONASS + L-Band- Active Multi-Frequency Antenna – Embedded

Part #: 108-00083-01

- ✔ Small form factor
- ✔ GIS, RTK and other high accuracy GNSS applications
- ✔ Low Power Consumption
- ✔ Minimal phase center variation over azimuth and elevation
- ✔ Negligible group delay variation
- ✔ Automotive grade housing

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz 1559-1606 MHz 1539 - 1559 MHz
Realized gain	2.6 dB 3.3 dB 1.5 dB
Noise figure	≤ 2 dB



Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded/ U.FL
Dimensions	65mm x 65mm x 17 mm



MIA-GNSS-1500-C

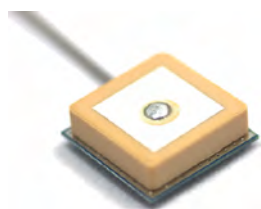
Active Multi-Frequency Antenna – Embedded

Part #: 189-00076-01

- ✔ GPS, GLONASS, Beidou frequencies
- ✔ Active LNA circuitry
- ✔ Compact size
- ✔ Custom tuning
- ✔ Custom connector / cable size

Key electrical specifications:

Parameter	Specification
Frequency	1561.098± 2.046 MHz 1575.42 MHz 1602MHz
Gain @zenith	-5.5dBi typ. -4.5dBi typ. -2.5dBi typ.
Polarization	RHCP



Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	custom connector
Dimensions	15 x 15 x 6.6 mm

Iridium Passive Microstrip Antenna

MEA-1600-SM

External Iridium/GNSS Passive Antenna – Screw Mount

Part #: 189-00059-01

- ✔ 2in1 antenna: GPS/GLONASS ✔ Galileo and Iridium ✔ High performance ✔ Low Profile ✔ Cable1: GPS/GLONASS /Galileo -1575-1606 MHz
- ✔ Cable 2: Iridium - 1616-1627 MHz ✔ Easy mounting: Screw Mount ✔ Iridium certified antenna ✔ Anti-Rotation Mounting
- ✔ Customizable Cable and Connector ✔ Low profile 80 × 74 × 25.6 mm I ✔ P69



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz / 1598-1606 MHz
Active gain	28 dB@ 2.7 V
Polarization	RHCP
Frequency Range	1616 – 1627 MHz
Peak gain	5.2 dBic
Average Gain	-1.8 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA male
Dimensions	80mm x 74mm x 25.6 mm

MEA-1621

External Iridium Certified Passive Antenna – Magnet Mount

Part #: 189-00024-01

- ✔ Optimized for Iridium Network ✔ Very low axial ratio ✔ Excellent performance at low orbit ✔ Easy mounting ✔ 150cm cable length
- ✔ LM4100 cable ✔ Rugged housing



Key electrical specifications:

Parameter	Specification
Frequency	Iridium 1616-1626 MHz
Peak Gain	4.5 dBic
Average Gain	-1.1 dB
Axial Ratio	3 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA–Male (other connectors available)
Dimensions	80 x 76 x 16 mm

MEA-1621-AM

Iridium Certified Antenna – Adhesive Mount

Part #: 189-00067-01

- ✔ Optimized for Iridium Network ✔ Very low axial ratio ✔ Excellent performance at low orbit ✔ Easy mounting ✔ Rugged housing



Key electrical specifications:

Parameter	Specification
Frequency	1616-1627 MHz
Peak Gain	4.5 dBic
Average Gain	-1.1 dB
Axial Ratio	3 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA–Male
Dimensions	80 x 76 x 16 mm

Iridium Passive Microstrip Antenna

MEA-1621-GGG

External Iridium Passive Antenna – Screw Mount

Part #: 189-00060-01

- ✔ Optimized for GPS/GLONASS/IRIDIUM/ Cellular networks
- ✔ Easy mounting
- ✔ 1m cable length RG-174, CFD-200 cables
- ✔ Rugged housing
- ✔ Customer specification connectors
- ✔ IPX7 waterproof housing

Key electrical specifications:

Parameter	Specification	
GPS/GLONASS	Frequency Range	1575.42 / 1602 MHz
	Active gain	3 dBi Typ. @1575 MHz / 2.5 dBi Typ. @1602 MHz
	Polarization	Linear
LNA	Frequency Range	1575.42 / 1602 MHz
	Peak gain	28 dB Typ. / 25 dB Min
	VSWR	2.0 : 1 Max
Cellular	Frequency Range	824-960 / 1710-2170 MHz
	Active gain	0.56-2.69 dBi @ 824-960 MHz 1.69-5.2 dBi @1710-2170 MHz
	Impedance	50 Ω
Iridium	Frequency Range	1621 MHz
	Peak gain	3.5 dBic Min. @ 1621 MHz
	Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA–Male (other connectors available)
Dimensions	80mm x 74mm x 43 mm



MEA-1621-SM

External Iridium Passive Antenna – Screw Mount

Part #: 189-00060-01

- ✔ Frequency coverage: 1616-1627 MHz
- ✔ Easy mounting: Screw Mount
- ✔ Optimized for Iridium network
- ✔ High Performance
- ✔ Ground Plane Independent
- ✔ Anti-Rotation Mechanism
- ✔ Customizable Cable and Connector
- ✔ ROHS Certified
- ✔ Small size: Dimensions 80 x 74 x 25.6 mm
- ✔ Rugged housing
- ✔ IP69, IP67

Key electrical specifications:

Parameter	Specification
Frequency	1616-1627 MHz
Peak Gain	4.5 dBic
Average Gain	1.2 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA–Male (other connectors available)
Dimensions	80mm x 74mm x 43 mm



Iridium Passive Microstrip Antenna



MPA-406-1612

Passive GPS Iridium Antenna – 40mm x 6.5mm

Part #: 189-00050-01

- ✔ Ultra High Performance
- ✔ Iridium & GPS Band Coverage
- ✔ Embedded Applications
- ✔ Pin Connector
- ✔ Custom Tuning and Matching



Key electrical specifications:

Parameter	Specification
Frequency	1565 MHz - 1640 MHz
Antenna element peak gain	+2.0 dBi (typical)
Axial Ratio	3 dB max

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
Dimensions	40mm x 40 mm x 6.5mm

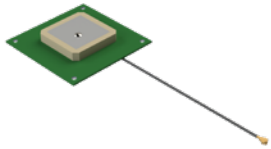


MPA-D254-1621

Iridium Passive Antenna – 25mm

Part #: 100-00024-02

- ✔ Iridium frequency band
- ✔ U. FL connector or other
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1616-1626 MHz
Antenna element peak gain	2.5 dBic
Axial Ratio	4 dB (typical)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	U. FL connector
Dimensions	25 mm x 25 mm x 4 mm

Globalstar Passive Microstrip Antenna

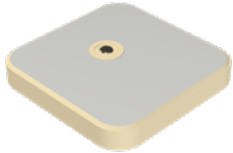


MPA-1618-C

Globalstar Passive Antenna – 25mm

Part #: 189-00078-01

- ✔ Globalstar Simplex
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1615-1645 MHz
Realized Gain	5 dBic
Axial Ratio	2.5 dB (typical) / 5 dB (max)

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded / Pin connector
Dimensions	25.1 x 25.1 x 4.2 mm

GPS/GLONASS Microstrip Antennas

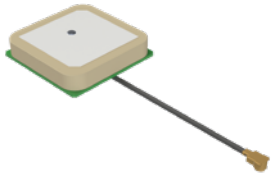


MIA-1516-C

GPS/GLONASS Active Antenna – 25mm

Part #: 189-00077-01

- ✔ GPS & GLONASS coverage
- ✔ Active LNA circuitry
- ✔ Custom cable-connector options
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 ± 1.023 MHz 1602 ± 8 MHz
Gain	-1 dBi typ. +2 dBi typ.
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	25.1 x 25.1 x 7.4



MPA-134-GPS

Passive GPS GLONASS Antenna – 13mm x 4mm

Part #: 189-00056-01

- ✔ GLONASS frequency
- ✔ Easy mounting
- ✔ Pin-Connector
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Ground Plane Dependent
- ✔ Dimensions 13 x 13 x 4 mm



Key electrical specifications:

Parameter	Specification
Frequency	1595 - 1610 MHz
Gain at Zenith	-1.5 dBic typ
Axial Ratio	5 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin - Connector
Dimensions	13 x 13 x 4mm



MPA-1516

GPS GLONASS Passive Antenna – 25mm

Part #: 189-00044-01

- ✔ GPS & GLONASS coverage
- ✔ Custom cable-connector options
- ✔ Compact size
- ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (GLONASS)
Total system peak gain	5 dBic
Axial Ratio	3 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin solution
Dimensions	25 mm x 25 mm x 4 mm

GPS/GLONASS Microstrip Antennas

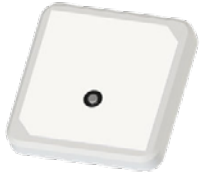


MPA-356-1516

Passive GPS GLONASS Beidou Antenna – 35mm x 6mm

Part #: 189-00049-01

✔ GPS, GLONASS, Beidou frequency ✔ Adhesive mounting ✔ Pin connector ✔ Compact size ✔ Custom tuning



Key electrical specifications:

Parameter	Specification
Frequency	GPS: 1575.42 MHz ± 1.023 MHz GLONASS: 1602 MHz ± 5 MHz Beidou: 1561.098 MHz ± 2.046 MHz
Realized gain	GPS: +3.7 dBi typ. GLONASS: +4.9 dBi typ. Beidou: +5.2 dBi typ.
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pin connector
18 mm x 18 mm x 4 mm	35 mm x 35 mm x 6 mm

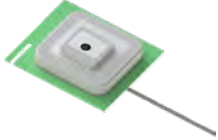
WiFi Embedded Microstrip Antennas

MPA-254-WIFI

WiFi Embedded Antenna – 25mm x 4 mm

Part #: 189-00055-01

- ✓ 2.4GHz & 5.8 GHz Wi-Fi frequency
- ✓ Integrated Ground plane with cable
- ✓ Easy mounting
- ✓ Surface Mount
- ✓ Compact size
- ✓ Advanced Ceramic Material
- ✓ Terminator using IPEX connector



Key electrical specifications:

Parameter	Specification
Frequency	2400-2500 MHz 5700-5870MH
Gain at Zenith	1.0 dBi typ.
Polarization	Linear

Key mechanical specifications:

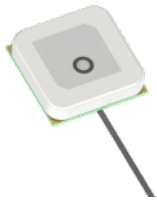
Parameter	Specification
Mounting option / Connector	I-PEX (U.FL)
Dimensions	25 mm x 25 mm x 4 mm

MPA-258-WIFI

WiFi Embedded Antenna – 25mm x 4.5mm

Part #: 189-00051-01

- ✓ 2.4GHz Wi-Fi frequency
- ✓ Integrated Ground plane with cable
- ✓ Easy mounting
- ✓ Surface Mount
- ✓ Compact size
- ✓ Advanced Ceramic Material
- ✓ Ground Plane Dependent
- ✓ Terminator using IPEX connector
- ✓ Dimensions 25 x 25 x 4.5 mm



Key electrical specifications:

Parameter	Specification
Frequency	2450 ± 50 MHz
Gain at Zenith	> 0.5 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	I-PEX (MHF)
Dimensions	25 x 25 x 4.5 mm

5G Antennas





We offer high performing 5G antennas that provide coverage for all lower and mid 5G bands along with custom solutions for mm wave frequencies. By offering the most comprehensive portfolio of external antennas with different mounting options, omnidirectional radiation patterns for easy integration in wireless communication devices, we are the leaders of 5G antenna solutions. Our 5G antennas are great for telematics systems, remote surveillance, asset tracking and any IOT system applications. All of our 5G antenna solutions are fully customizable and optimized for the customers system.

Applications



Explore

Our New Release **MEA-1400-SM**

our **GNSS L1 L5 Antenna Screw Mount**

MEA-1400-SM

The MEA-1400-SM Screw Mount Antenna is a 2-in-1 antenna solution, with high gain and efficiency ideal for maintaining constant global connectivity. The MEA-1400-SM covers all GPS/GLONASS/Galileo and L1 L5 frequencies with low-profile antenna design and high-quality screw mount.

This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications. The high performance and low profile make this antenna ideal for the most challenging installations.

This screw mount antenna is easy to install with maximum durability. The MEA-1400-SM has one cable with a SMA-Male standard connector, 3m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types. This antenna is low profile, rugged and IP67 rated.

Features

- ✓ GNSS L1/L5
- ✓ High Precision Navigation
- ✓ Screw Mount
- ✓ Low Profile
- ✓ Low Noise Figure
- ✓ Low Power Consumption
- ✓ Anti-Rotation Mechanism
- ✓ Customizable Cable and Connector
- ✓ Dimensions 80 × 74 × 25.6 mm
- ✓ IP67, IP69

Suggested Applications include

- ✓ Asset Tracking
- ✓ Telematics
- ✓ Container & Logistics
- ✓ Automotive
- ✓ Industrial Applications
- ✓ IOT Applications



5G Antennas

Screw Mount

MEA-698-3800-SM

Low Profile 5G LTE Antenna

Part #: 100-00132-01

- ✔ Low profile antenna
- ✔ Covers large frequencies 698-3800 MHz
- ✔ ROHS Compliant
- ✔ High gain for the antenna size
- ✔ PC + ABC housing
- ✔ Exceptional performance over the main 4G/5G bands



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Antenna element peak gain	5.5 dBi
Return Loss	-10 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	59 x 71mm

MEA-LGI-SMA

5GNR & Iridium GNSS Antenna – Screw Mount

Part #: 189-00059-01

- ✔ 3in1 antenna: 5GNR, Iridium and GNSS
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Anti-Rotation Mounting
- ✔ Optimized for Iridium network
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Low profile 80 × 74 × 25.6 mm
- ✔ IP69



Key electrical specifications:

Parameter	Specification	
Frequency	617-960 MHz	1427-2690 MHz
	3300-5000 MHz	5150-5925 MHz
	1616 - 1627 MHz	1559 - 1608 MHz
Antenna element peak gain	2.3 dBi	5.1 dBi
	2.6 dBi	2.7dBi
	5.2 dBi	28 dB @ 2.7 V
Polarization	Linear	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 × 74 × 25.6 mm

5G Antennas Screw Mount

ME-A-LWIG-SM

5GNR, 2.4/5.0/6.0 GHz ISM, Iridium & GNSS Antenna – Screw Mount

Part #:100-00164-01

- ✔ 4in1 antenna (5GNR, 2.4/5.0/6.0 GHz ISM, Iridium and GPS/GLONASS/QZSS/Galileo) ✔ Screw Mount ✔ Anti-Rotation Mechanism
- ✔ Customizable Cable and Connector ✔ Dimensions Ø 146 x 31.5 mm ✔ IK09, IP67, IP69K

Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz / 1427-2690 MHz 3300-5000 MHz / 5150-5925 MHz
Peak gain	-1.7 dBi/-1.7 dBi /-1.3 dBi/ 0.6 dBi
Efficiency	19.7% / 17.5% / 13.3% / 15.9%
VSWR	3.3:1/ 2.3:1 / 2.1:1 / 1.7:1
Frequency	2410-2490 MHz / 4920-5925 MHz / 5925-7125 MHz
Peak gain	1.2 dBi / 0.0 dBi / 5.2 dBi
Efficiency	30.5% / 13.8% / 52.1%
VSWR	1.4:1 / 1.6:1 / 2.5:1
Frequency	1616-1627 MHz
Peak gain	4.5 dBic
Efficiency	76%
VSWR	1.2:1
Frequency	1575.42 MHz /1598-1606 MHz
Active gain	28 dB @ 2.7 V
Noise figure	1.8 dB @ 2.7 V
Power consumption	24.3 mW@2.7 V

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 146 x 31.5 mm



ME-A-LWIG-SM

5GNR, 2.4/5.0/6.0 GHz ISM, Iridium & GNSS Antenna – Screw Mount

Part #:100-00164-01

- ✔ GNSS L1/L55 ✔ High Precision Navigation ✔ Screw Mount ✔ Low Profile ✔ Low Noise Figure ✔ Low Power Consumption
- ✔ Anti-Rotation Mechanism ✔ Customizable Cable and Connector ✔ IP67, IP69

Key electrical specifications:

Parameter	Specification
Frequency	1176.45 MHz / 1561,1575, 1602 MHz
Axial Ratio	≤ 3dB
Polarization	RHCP
Bandwidth	≤ 1176 MHz / 1561-1606 MHz

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm



5G Antennas

Screw Mount

MEA-5GGG-SM

5G NR and GPS/GLONASS Screw Mount

Part #: 100-00204-01

- ✓ 5G NR & GPS/GLONASS/QZSS/Galileo frequency coverage
- ✓ Easy Mounting: Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Low Profile
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions 80 × 74 × 25.6 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1427-2690 MHz 3300-5000 MHz 5150-5925 MHz 1575.42 MHz 1602 MHz
Antenna element peak gain	2.3 dBi@698-960 MHz 5.1 dBi@1427-2690 MHz 2.6 dBi @3300-5000 MHz 2.7 dBi @5150-5925 MHz 28dB @ 2.7 V @1575.42 MHz 28dB @ 2.7 V @1602 MHz
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	80 × 74 × 25.6 mm

MEA-5G NR-SM

5G NR Screw Mount

Part #: 100-00217-01

- ✓ Easy mounting: Screw Mount
- ✓ High Performance
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions Ø 60 x 81 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960MHz 1427-2690MHz 3300-5000MHz 5150-5925MHz
Antenna element peak gain	3.3dBi@617-960MHz 2.0dBi@1427-2690MHz 0.5dBi@3300-5000MHz 0.6dBi@5150-5925MHz
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 60 × 81 mm

MEA-5G NR-LP-SM

5G NR Screw Mount

Part #: 100-00222-01

- ✓ Easy mounting: Screw Mount
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low profile: Ø 50 x 50.8 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960MHz 1427-2690MHz 3300-5000MHz 5150-5925MHz
Antenna element peak gain	2.9dBi@617-960MHz 2.1dBi@1427-2690MHz 0.5dBi@3300-5000MHz -1.0dBi@5150-5925MHz
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 50 × 50.8

5G Antennas

Magnet Mount

ME A-5800-MM

5G NR Magnetic Mount Antenna

Part #: 100-00200-01

- ✓ 5G NR Frequency range (617-960 MHz, 1427-2690 MHz, 3300-5000 MHz, 5150-5925 MHz)
- ✓ Easy mounting: Magnetic Mount
- ✓ High Performance
- ✓ Customizable Cable and Connector
- ✓ Low profile: Ø 31 x 109 mm



Key electrical specifications:

Parameter	Specification
Frequency	617-960MHz 1427-2690MHz 3300-5000MHz 5150-5925MHz
Antenna element peak gain	1.0 dBi @ 617-960 MHz 2.9 dBi @ 1427-2690 MHz 2.5 dBi @ 3300-5000 MHz 0.4 dBi @ 5150-5925 MHz
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	105.1 x 30.1 x 6.7 mm

ME A-5IG-MA

5G NR, Iridium and GNSS Magnetic/Adhesive Mount

Part #: 100-00206-01

- ✓ Easy mounting: Magnetic/Adhesive Mount
- ✓ Iridium Certified
- ✓ Low Profile
- ✓ High Performance
- ✓ Pre-Filtered GNSS
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions 89 x 76 x 27/30 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz/1427-2690 MHz 3300-5000 MHz/5150-5925 MHz
Antenna element peak	2.3 dBi / 5.1 dBi / 2.6 dBi / 2.7 dBi
Frequency	1616-1627 MHz
Antenna element peak	5.2 dBi
Frequency	1575.42 MHz / 1602 MHz
Antenna element peak	28 dB @ 2.7 / 28 dB @ 2.7
Bandwidth	Omni-directional / Hemispherical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic/Adhesive Mount/ SMA Male
Dimensions	89 x 76 x 27/30 mm

5G Antennas

Adhesive Mount



MEA-5IG-MA

5G NR, Iridium and GNSS Magnetic/Adhesive Mount

Part #: 100-00206-01

- ✓ Easy mounting: Magnetic/Adhesive Mount
- ✓ Iridium Certified
- ✓ Low Profile
- ✓ High Performance
- ✓ Pre-Filtered GNSS
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions 89 × 76 × 27/30 mm
- ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz/1427-2690 MHz 3300-5000 MHz/5150-5925 MHz
Antenna element peak	2.3 dBi / 5.1 dBi / 2.6 dBi / 2.7 dBi
Frequency	1616-1627 MHz
Antenna element peak	5.2 dBi
Frequency	1575.42 MHz / 1602 MHz
Antenna element peak	28 dB @ 2.7 / 28 dB @ 2.7
Bandwidth	Omni-directional / Hemispherical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic/Adhesive Mount/ SMA Male
Dimensions	89 × 76 × 27/30 mm



MEA-5GNR-AM

5G NR Adhesive Mount

Part #: 100-00221-01

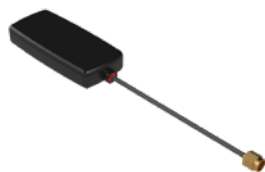
- ✓ Easy mounting: Adhesive Mount
- ✓ High Performance
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions 83 × 35 × 13.3 mm
- ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification
Frequency	617-960MHz 1427-2690MHz 3300-5000MHz 5150-5925MHz
Antenna element peak gain	1.1dBi@617-960MHz 3.6dBi@1427-2690MHz 1.9dBi@3300-5000MHz 1.2dBi@5150-5925MHz
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Adhesive Mount/ SMA-Male
Dimensions	83 × 35 × 13.3 mm



5G Antennas Connector Mount

ME A-2690-CM

5G NR Connector Mount Antenna

Part #: 100-00205-01

- ✓ 5G NR frequency range (617-960 MHz -1525-2690 MHz) ✓ Easy mounting: Connector Mount ✓ N-Male Standard Ground Plane Independent ✓ Dimensions 232 × Ø 20 (Ø 16) mm



Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz 1525-2690 MHz
Antenna element peak gain	0.5 dBi @ 617-960 MHz 2.0 dBi @ 1525-2690 MHz
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / N-male connector
Dimensions	Ø 20 (Ø 16) × 232 mm

ME A-2400-N

Ultra-Rugged Dipole Antenna

Part #: 100-00190-01/02

- ✓ High Performance ✓ Dual Band 2.4/5 GHz ✓ UV Protected ✓ IP 67 ✓ Low profile antenna ✓ N-Jack or N-Plug ✓ Easy installation: Pole / Wall Mount



Key electrical specifications:

Parameter	Specification
Frequency	2.4 - 2.5 GHz 4.8 - 6.0GHz
Antenna element peak gain	6 dBi 6 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pole / Wall Mount / N-Jack or N-Plug
Dimensions	Ø 30 x 280 mm (N-Jack) Ø 23 x 255 mm (N-Plug)

ME A-5000-CM

5G NR Connector Mount

Part #: 100-00215-01

- ✓ Easy mounting: Connector Mount ✓ Ultra-Wide band Antenna ✓ High Performance ✓ Ground Plane Independent ✓ Waterproof Dimensions 192 × 20 × 18 mm ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz 1427-2690 MHz 3300-3800 MHz
Antenna element peak gain	2.3 dBi / 5.1 dBi / 2.6 dBi / 2.7 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount/ SMA Male
Dimensions	192 × 20 × 18 mm

5G Antennas Connector Mount

MEA-5G NR-UWB-CM 5G NR Connector Mount

Part #: 100-00218-01

- ✔ Easy mounting: Connector Mount
- ✔ Ground Plane Independent
- ✔ Ultra-Wide band Antenna
- ✔ High Performance
- ✔ Ground Plane Independent
- ✔ Hinged Connector
- ✔ Low profile 171 × 38 × 13.8 mm



Key electrical specifications:

Parameter	Specification
Frequency	617-960MHz 1427-2690MHz 3300-5000MHz 5150-5925MHz
Antenna element peak gain	0.0dBi@617-960MHz 1.7dBi@1427-2690MHz 1.1dBi@3300-5000MHz 1.6dBi@5150-5925MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount/ SMA Male
Dimensions	171 × 38 × 13.8 mm

MEA-5G NR-UWB-SMA 5G NR/UHF Connector Mount

Part #: 100-00216-01

- ✔ Easy mounting: Connector Mount
- ✔ Ultra-Wide band Antenna
- ✔ High Performance
- ✔ Ground Plane Independent
- ✔ Hinged Connector
- ✔ Low profile 171 × 38 × 13.8 mm



Key electrical specifications:

Parameter	Specification
Frequency	410-496 MHz 617-960 MHz 1427-2690 MHz 3300-5000 MHz 5150-5925 MHz
Antenna element peak gain	-4.5dBi@410-496MHz 0.5dBi@617-960MHz 2.1dBi@1427-2690MHz 1.5dBi@3300-5000MHz 2.5dBi@5150-5925MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount/ SMA Male
Dimensions	171 × 38 × 13.8 mm

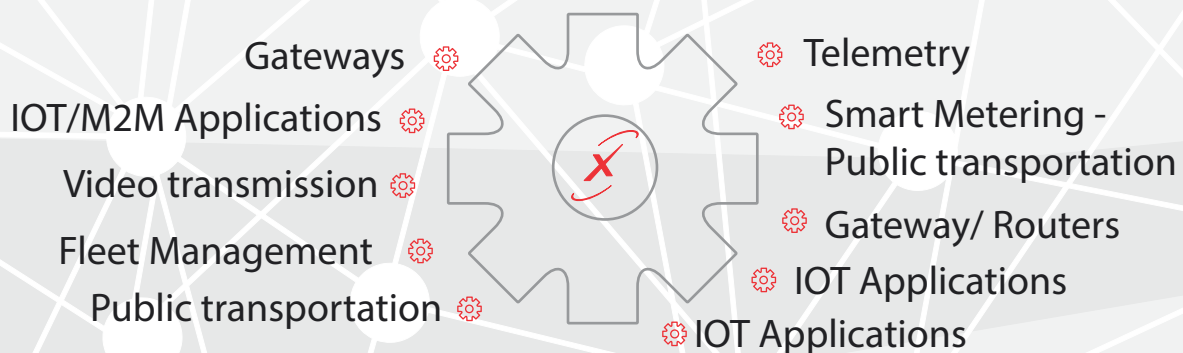
3G/4G/LTE Antennas





Maxtena offers a wide selection of antennas across a broad range of frequencies between 700- 960 MHz, 1710-2170 MHz and 2500-2700 MHz, dual-band 2.4GHz/5GHz, cellular, and Bluetooth antennas. It enhances connectivity for multiple devices in nearly any location. Our antennas are purpose-built to provide compact, high gain, and a constant worldwide connectivity for Wi-Fi, Bluetooth, and ZigBee. The antennas are available in several different sizes depending on customer requirements. We produce both external antennas that come in a range of rugged housings, as well as embedded antennas. These antennas can be customized with different cable lengths and connectors upon request. We have developed countless high-performance antennas, and they are currently being used in multiple IoT devices (Wearables, Routers, Smart Home, UAV/Drone, and Connected Vehicles).

Applications



Discover

Our best seller **Netz 4in1**

our **LTE/Cellular/WIFI and MIMO 4in1 Antenna**

Netz 4in1

The NETZ 4 in 1 is a Cellular/LTE/MIMO/WIFI technology solution by Maxtena. The antenna features Cellular/LTE (698-960, 1710-2170, 2500-2700 MHz) and 2.4/5.0 GHz WIFI (2410-2490, 4920-5925 MHz) reception.

The NETZ 4 in 1 antenna is an omnidirectional, heavy-duty, and waterproof external multi-antenna for use in fleet management, smart cities, and buses, train, and commercial transport.

This cutting-edge antenna provides powerful MIMO antenna technology for global coverage LTE and Wi-Fi for constant wireless communication.

The 4 in 1 solution is ideal for high data throughput and streaming, video, industrial and IOT applications. The antennas advanced technology ensures constant reception and transmission. The underside of the antenna contains a foam adhesive for easy, reliable mounting.



Features

- ✓ Screw Mount
- ✓ High Performance
- ✓ Rated IP67, IP69K and IK09 Compact
- ✓ Size: 96 x 96 x 94 mm
- ✓ Custom Cable and Connector

Suggested Applications include

- ✓ Fleet Management
- ✓ Commercial Transport
- ✓ HD Video Monitoring
- ✓ Buses, Train & Commerical Applications
- ✓ Smart Cities

The standard NETZ 4 in 1 comes with 3 meters LL195, and SMA-Male connectors. It is available with an SMA, FAKRA or customer specified connector and cable length.



3G/4G/LTE Antennas

Screw mount

NETZ 4IN1

4G LTE/Cellular/WIFI and MIMO 4in1 Antenna

Part #: 100-00142-01

- ✔ Screw Mount
- ✔ High Performance
- ✔ Rated IP67, IP69K and IK09
- ✔ Compact Size: 96 x 96 x 94 mm
- ✔ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz 2500-2700 MHz
Antenna element peak gain	0.9 dBi 3.3 dBi 4.4 dBi
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	96 x 96 x 94 mm

MEA-SW-700-3800

2G/3G/4G/ISM/WIFI GNSS Antenna

Part #: 189-00046-01

- ✔ 2G/3G/4G/ISM/Wi-Fi & GNSS frequency bands
- ✔ N Type connector & seal ring
- ✔ IP68 rated / UV protected
- ✔ Rugged industrial design
- ✔ Ground plane Independent



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Antenna element peak gain	4.0 dB
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount/ N Type connector
Dimensions	Ø 41 x 84 mm

MEA-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✔ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Low Profile: 80 x 76 x 13 mm
- ✔ Ground Plane Independent
- ✔ IP67
- ✔ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz 868 MHz 915 MHz
Antenna element peak gain	0.7 dBi@698-960 MHz 2.7 dBi@1710-2170 MHz 4.3 dBi@2500-2700 MHz 1.2 dBi@ 868 MHz 1.7 dBi@915 MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount /SMA Male
Dimensions	80 x 74 x 25.6 mm

3G/4G/LTE Antennas

Screw mount

NETZ 5IN1

LTE-MIMO/WIFI-MIMO/GNSS 5in1 Antenna

Part #: 100-00095-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ An integrated SMA connectors



Key electrical specifications:

Parameter	Specification
Frequency	1561 MHz 1575.42 MHz 1602 MHz 698-960 MHz 1710-2170 MHz 2300-2690 MHz
Antenna element peak gain	3 dBi Typ. @1561 MHz 3 dBi Typ. @1575 MHz 3.5 dBi Typ. @1602 MHz 4.0 dBi Typ. @698~960 MHz 6.0 dBi Typ. @1710~2170 MHz 5.0 dBi Typ. @2300~2690 MHz
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Permanent Mount/ SMA connectors
Dimensions	Ø 141.98 x 66.5 mm

Netz 5in1-SM

CELLULAR/LTE MIMO, 2.4/5.0 GHz ISM MIMO and GNSS - Screw Mount

Part #: 100-00177-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09



Key electrical specifications:

Parameter	Specification
Cable1 Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Cable1 Antenna element peak	-0.9 dBi 3.3 dBi 4.3 dBi
Cable2 Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Cable2 Antenna element peak	1.4 dBi 3.0 dB 3.0 dBi
Cable3 Frequency	2410-2490 MHz 4920-5925 MHz
Cable3 Antenna element peak	4.8 dBi 3.0 dBi
Cable4 Frequency	2410-2490 MHz 4920-5925 MHz
Cable4 Antenna element peak	4.6 dBi 3.1 dBi
Cable5 Frequency	1575.42 MHz 1602 MHz
Cable5 Antenna element peak	23 dB @ 3 V; 24dB @ 5 V
Radiation pattern	Omni-directional / Hemispherical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male / SMA-Male RP
Dimensions	Ø 96 x 90 mm

3G/4G/LTE Antennas

Screw mount

MEA-LW2-SM

External Cellular/LTE, ISM and GNSS Antenna – Screw Mount

Part #: 189-00061-01

- ✓ 2in1 antenna: Cellular/LTE and 2.4/5.0GHz ISM
- ✓ Wide band antenna
- ✓ Ground Plane Independent
- ✓ Rugged housing
- ✓ IP67 rated
- ✓ IP69 rated
- ✓ Low profile: 80 x 74 x 43 mm
- ✓ Anti-Rotation mounting
- ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Peak gain	2.7 dBi 5.1 dBi 5.3 dBi
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 43 mm

MEA-2700-UWB-SM

High Performance 4G LTE Antenna

Part #: 100-00141-01

- ✓ High Performance
- ✓ 4G LTE Ultra-Wideband Automotive Antenna
- ✓ ROHS Compliant
- ✓ Custom Cable and Connector
- ✓ Rated IP67



Key electrical specifications:

Parameter	Specification
Frequency	698-960/1710-2700 MHz
Peak gain	3 dBi
Radiation pattern	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ N-connector
Dimensions	Ø 48 x 82 mm

MEA-698-3800-SM

Low Profile 5G LTE Antenna

Part #: 100-00132-01

- ✓ Low profile antenna
- ✓ Covers large frequencies 698-3800 MHz
- ✓ ROHS Compliant
- ✓ High gain for the antenna size
- ✓ PC + ABC housing
- ✓ Exceptional performance over the main 4G/5G bands



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Peak gain	5.5 dBi
Radiation pattern	-10 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	59 x 71mm

3G/4G/LTE Antennas

Screw mount

MEA-1400-SM

GNSS L1 L5 Antenna – Screw Mount

Part #: 100-00165-01

- ✓ GNSS L1/L55
- ✓ High Precision Navigation
- ✓ Screw Mount
- ✓ Low Profile
- ✓ Low Noise Figure
- ✓ Low Power Consumption
- ✓ Anti-Rotation Mechanism
- ✓ Customizable Cable and Connector
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	1176.45 MHz / 1561,1575, 1602 MHz
Axial Ratio	≤ 3dB
Polarization	RHCP
Bandwidth	1176 MHz / 1561-1606 MHz

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

MEA-LTE-MIMO-ISM-SM

Cellular/LTE MIMO and 915 MHz ISM Screw Mount

Part #: 100-00203-01

- ✓ High Performance
- ✓ Easy mounting: Screw Mount
- ✓ Ground Plane Independent
- ✓ Low profile: 96 x 96 x 90 mm
- ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -1.5 dBi 3.2 dBi 6.5 dBi
Cable2	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -0.9 dBi 3.0 dBi 5.0 dBi
Cable3	Frequency 902-928 MHz
	Antenna element peak 0.2 dBi
Bandwidth	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 96 x 90 mm

3G/4G/LTE Antennas

Screw mount

Netz 5in1-MIMO

CELLULAR/LTE MIMO and GNSS - Screw mount antenna

Part #: 100-00177-01

- ✓ CELLULAR / LTE & GPS/GLONASS/QZSS/frequencies
- ✓ Galileo frequency range
- ✓ Easy mounting: Screw Mount
- ✓ Heavy Duty antenna
- ✓ High Performance
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions: Ø 96 x H 90 mm
- ✓ IP67, IP69, IK09



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz 2500-2700 MHz
	Antenna element peak 0.2dBi 3.8dBi 6.0dBi
Cable2	Frequency 698-960 MHz 1710-2170 MHz 2500-2700 MHz
	Antenna element peak -0.1dBi 3.2dBi -5.6dBi
Cable3	Frequency 698-960 MHz 1710-2170 MHz 2500-2700 MHz
	Antenna element peak -0.5dBi 3.1dBi 5.0dBi
Cable4	Frequency 698-960 MHz 1710-2170 MHz 2500-2700 MHz
	Antenna element peak -0.7dBi 3.0dBi 4.8dBi
Cable5	Frequency 1575.42 MHz 1602 MHz
	Antenna element peak 23dB@3V; 24dB@5V
Radiation pattern	Omni-Directional / Hemispherical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 96 x 90 mm

MEA-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✓ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✓ Ultra-Wide band antenna
- ✓ High performance
- ✓ Easy mounting: Screw Mount
- ✓ Low Profile: 80 x 76 x 13 mm
- ✓ Ground Plane Independent
- ✓ IP67
- ✓ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-2700MHz 1.2 dBi@868MHz 1.7 dBi@915MHz
Radiation pattern	Radiation pattern

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

3G/4G/LTE Antennas

Screw mount



MEA-2500-SM

CELLULAR/LTE MIMO Screw Mount

Part #: 100-00212-01

- ✓ CELLULAR / LTE (698-960 MHz, 1710-2170 MHz, and 2500-2700 MHz)
- ✓ Easy mounting: Screw Mount
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low profile : 80 x 74 x 14.7 mm
- ✓ IP67



Key electrical specifications:

Parameter	Specification
Cable1	Frequency
	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Antenna element peak	-2.7 dB -3.0 dB -5.9 dB
Cable2	Frequency
	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Antenna element peak	1.4 dBi 2.2 dBi 4.4 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	80 x 74 x 14.7 mm



COBRA-LTE700

LTE MIMO & Active GPS High-Performance Transportation Antenna

Part #: 100-00036-01

- ✓ Robust arrow shape housing for easy roof-top alignment
- ✓ MIMO technology
- ✓ One connector for each application; LTE 1, LTE 2 and GPS
- ✓ No ground plane requirements
- ✓ Single-hole mounting with screws on top for easy installation
- ✓ Use of only one multifunction solution



Key electrical specifications:

Parameter	Specification
Frequency	690 - 960 MHz 1700 - 2200 MHz 1575.42 MHz
Antenna element peak gain	4 dBi (typical)
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm



MAXWAVE

MAXWAVE™ 4x4 MIMO TRAIN ANTENNA

Part #: 100-00074-01

- ✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz
- ✓ Optional active GPS/GLONASS antenna with integrated surge arrester
- ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines
- ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces
- ✓ Railway standard compliant to EN50155 and fire retardant according to EN 45545:2013



Key electrical specifications:

Parameter	Specification
Frequency	4 x 698 – 6000 MHz
Pattern	Omnidirectional
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

3G/4G/LTE Antennas

Magnet Mount

MEA-GNSS-LTE-MM

Active Multi-Frequency Antenna – External

Part #: 189-00103-03

- ✓ GNSS & LTE Bands ✓ 2 in 1 Low Profile Antenna ✓ Rugged IP67 ✓ Customizable Cables and Connectors ✓ Small Size ✓ Easy Mounting
- ✓ Quality Textured Covert Design ✓ Tape for Quick and Easy Mounting



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz/ 1602 MHz 698~960 MHz / 1710~2170 MHz / 2300~2690 MHz
Antenna element peak gain	1 dBi Typ. @ 1575 MHz 1 dBi Typ. @ 1602 MHz 1.0 dBi Typ. @ 698-960 MHz 2.0 dBi Typ. @ 1710-2170 MHz 2.0 dBi Typ. @ 2300-2690 MHz
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount/ SMA connector
Dimensions	51.4 x (h) 11.7 mm

MEA-4-GGC

GPS/GLONASS & 2G 3G

Part #: 100-00119-01

- ✓ GSM/GPRS/CDMA/PCS/DCS/WCDMA/UMTS/HSPA/GPS/GLONASS ✓ Low profile antenna for easy installation ✓ High LNA Gain ✓ Low noise figure ✓ Ultra-low power consumption ✓ IP65 water resistant ✓ Customizable connector & cable length ✓ Foam Adhesive or Magnet ✓ ROHS Compliant



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz/ 1602 MHz 824-894 MHz / 1850-1990 MHz
Antenna element peak gain	1 dBi Typ. @ 1575 MHz 1 dBi Typ. @ 1602 MHz 1.0 dBi Typ. @824~894 MHz 5.0 dBi Typ. @1850~1990 MHz
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet or Adhesive Mount/ SMA connector
Dimensions	58.15 x 56.2 x 16.8 mm

MEA-LTE3MM-SMA

CELLULAR / LTE Magnetic Mount

Part #: 100-00185-01

- ✓ CELLULAR / LTE - 698-960 MHz 1710-2170 MHz, 2500-2700 MHz ✓ Magnetic Mount ✓ Rugged design ✓ High Performance
- ✓ Customizable Cable and Connector ✓ Dimensions Ø 54 x 80 mm ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Antenna element peak gain	-2.6 dB -2.9 dB -3.6 dB
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic Mount / SMA-Male
Dimensions	Ø 54 x 80

3G/4G/LTE Antennas Magnet Mount



MEA-1400-MM

GNSS L1 L5 Antenna – Magnet Mount

Part #: 100-00186-01

- ✓ Magnetic Mount
- ✓ 28 dB Gain
- ✓ Pre-Filter
- ✓ Low Noise Figure
- ✓ Low Power Consumption
- ✓ Customizable Cable and Connector
- ✓ GPS/ GLO/ BEI/ QZSS/ Galileo/ IRNSS/ SBAS/ L1L5 (1176 and 1561-1606 MHz)



Key electrical specifications:

Parameter	Specification
Frequency	1164-1189 MHz / 1561-1606 MHz
Axial Ratio	≤ 3dB
Radiation	RHCP
Bandwidth	25 MHz / 45MHz

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic Mount / SMA-Male
Dimensions	Ø 54 x 21.5 mm

3G/4G/LTE Antennas Adhesive Mount

MEA-UWB-01-AM Low Profile LTE Antenna

Part #: 100-00106-01

- ✓ 2G/3G/4G Ultra-Wideband Automotive Antenna
- ✓ Fully customizable cable length and connector
- ✓ ROHS Compliant
- ✓ Low Profile
- ✓ IP67



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2300-2700 MHz
Antenna element peak gain	3.8 dBi 2.9 dBi 4.4 dBi
Impedance	50 Ω

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	105.1 mm x 30.1 mm x 6.7 mm

MEA-GNSS-LTE Active Multi-Frequency Antenna – External Adhesive Mount

Part #: 189-00103-01

- ✓ GNSS & LTE Bands
- ✓ 2 in 1 Low Profile Antenna
- ✓ Rugged IP67
- ✓ Customizable Cables and Connectors
- ✓ Small Size
- ✓ Easy Mounting
- ✓ Quality Textured Covert Design
- ✓ Tape for Quick and Easy Mounting



Key electrical specifications:

Parameter	Specification
Frequency	1575.42 MHz/ 1602 MHz 698-960 MHz / 1710-2170 MHz / 2300-2690 MHz
Antenna element peak gain	1 dBi Typ. @ 1575 MHz 1 dBi Typ. @ 1602 MHz 1.0 dBi Typ. @ 698-960 MHz 2.0 dBi Typ. @ 1710-2170 MHz 2.0 dBi Typ. @ 2300-2690 MHz
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Adhesive Mount/ SMA-Male
Dimensions	51.4 x (h) 11.7 mm

MEA-698-2700-AM Omni-Directional 4G LTE Antenna

Part #: 100-00143-01

- ✓ Dual-Port Multiband
- ✓ Omni-Directional LTE Antenna
- ✓ Covers Frequencies: 698 - 2700 MHz
- ✓ Low Profile
- ✓ Rugged Design



Key electrical specifications:

Parameter	Specification
Frequency	698-2700 MHz
Antenna element peak gain	4.5 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	101.5 x 77.6 x 15.8 mm

3G/4G/LTE Antennas

Adhesive Mount

ME-A-LG-AM

CELLULAR/LTE and GPS/GLONASS Adhesive Mount

Part #: 100-00193-01

- ✓ Cable 1: CELLULAR/LTE - 698-960 MHz; 1710-2170 MHz; 2500-2700 MHz / Cable 2: GPS/GLONASS/QZSS/Galileo - 1575-1606 MHz
- ✓ Adhesive Mount ✓ Ground Plane Independent ✓ Customizable Cable and Connector Dimensions ✓ Low profile: 83 x 35 x 13.3 mm
- ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Cable1 Antenna element peak	-2.7 dB	-3.0 dB	-5.9 dB
Polarization	Linear		
VSWR	1.8:1	1.3:1	2.0:1
Frequency	1575.42 MHz	1598-1606 MHz	
Cable2 Active gain	28 dB @ 2.7 V		
Polarization	RHCP		
VSWR	≤ 1.4:1		

Key mechanical specifications:

Parameter	Specification
Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm



ME-A-LGG-AM

Cellular/LTE and GPS/GLONASS Antenna – Adhesive Mount

Part #: 100-00163-01

- ✓ 2in 1 antenna (CELLULAR/LTE,GPS/GLONASS/QZSS/Galileo) ✓ Adhesive Mount ✓ High Performance ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector ✓ Dimensions 150.5 x 42 x 15.3 mm ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Cable1 Antenna element peak	3.4 dBi	3.5 dBi	3.9 dBi
Efficiency	76%	69%	76%
VSWR	1.7:1	1.4:1	1.5:1
Frequency	1575.42 MHz	1598-1606 MHz	
Cable2 Active gain	28 dB @ 2.7 V		
Polarization	RHCP		
VSWR	≤ 1.4:1		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA-Male
Dimensions	150.5 x 42 x 15.3 mm



3G/4G/LTE Antennas Adhesive Mount



MEA-3-GGL

GPS/GLONASS/LTE Antenna & 2G/3G LTE SOLUTION

Part #: 189-00053-01

- ✔ Covers GNSS & LTE Bands
- ✔ 2 in 1 Low Profile Antenna
- ✔ Rugged IP67
- ✔ Customizable Cables and Connectors
- ✔ Small Size
- ✔ Easy Magnet Mounting
- ✔ Quality Textured Covert Design

Key electrical specifications:

Parameter	Specification			
GNSS	Frequency	1575.42 MHz	1602 MHz	
	Polarization	Linear		
	Polarization	3.0 dBi Typ.	3.5 dBi Typ	
	VSWR	≤ 2.0:1		
LNA	Frequency	1575.42 MHz	1602 MHz	
	Power Consumption	9 Typ. mA @3.3V		
	Antenna Gain	28 dB Typ. / 25 dB Min		
	VSWR	≤ 2.0:1		
LTE	Frequency	698-960 MHz	1710-2170 MHz	
		2500-2700 MHz		
	Antenna element peak	1.5 dBi	0.5 dBi	0.5 dBi
	Efficiency	25%	30%	30%
	VSWR	≤ 5.5	≤ 4.0	≤ 4.0

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Foam adhesive / SMA, FAKRA or custom
Dimensions	(L) 55 x (W) 55 x (H) 20 mm



3G/4G/LTE Antennas Connector Mount

ME A-1700-LTE

High Performance LTE Antenna

Part #: 100-00109-01

- ✓ 3G/4G/LTE modems
- ✓ Ultra-Wideband Automotive Antenna
- ✓ Low profile for easy installation
- ✓ Small size: 20 x 215 mm³
- ROHS Compliant
- ✓ IPX67



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz
Antenna element peak gain	0~1 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N-Type
Dimensions	Ø 20 x 215 mm

ME A-960-LTE

4G LTE Omni-Directional Antenna

Part #: 100-00140-01

- ✓ Robust arrow shape housing for easy roof-top alignment
- ✓ MIMO technology
- ✓ One connector for each application; LTE 1, LTE 2 and GPS
- ✓ No ground plane requirements
- ✓ Single-hole mounting with screws on top for easy installation
- ✓ Use of only one multifunction solution



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz
Antenna element peak gain	3 dBi ± 1
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male
Dimensions	82 x 12 x 6 mm

ME A-UWB-LTE-90

Ultra-Wideband 4G LTE Antenna

Part #: 100-00139-01

- ✓ LTE / GSM / CDMA / DCS / PCS / WCDMA / UMTS / HSDPA / GPRS / EDGE / GPS / Wi-Fi
- ✓ Ultra-Wide Band Antenna
- ✓ Ground Plane Independent
- ✓ Hinged 90° termination with SMA(M) Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz
Antenna element peak gain	2.5 / 3.5 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male
Dimensions	163 x 22 x 7 mm

3G/4G/LTE Antennas Connector Mount



MEA-2700-LTE

Low Profile LTE Antenna

Part #: 100-00126-01

- ✓ Low profile design for easy installation
- ✓ Heavy duty applications
- ✓ Can be used for mobile and fixed base applications
- ✓ Compact housing that makes the antenna ideal for indoor or outdoor applications
- ✓ 698-960/1710-2170/2500-2700 MHz
- ✓ Small size: 22 x 66mm
- ✓ ROHS compliant



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2300-2700 MHz
Antenna element peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N-Female connector
Dimensions	22 x 66mm



MEA-3L-SMA

Cellular/LTE Antenna – Connector Mount

Part #: 100-00166-01

- ✓ CELLULAR / LTE frequency
- ✓ Connector Mount
- ✓ Low Profile
- ✓ Wide band Antenna Dimensions 48 x Ø 9 mm
- ✓ Easy integration
- ✓ High performance



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz
Efficiency	62.4% 62.4%
Polarization	Linear
Average gain	-2.1 dB 2.1 dB
Bandwidth	700/850/900 MHz 1700/1800/1900/2100 MHz

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 38 mm

3G/4G/LTE Antennas Pole & Wall Mount



MEA-2700-WIFI

Omni Fiberglass WIFI Antenna

Part #: 100-00188-01

- ✓ High Performance
- ✓ 698-960 MHz & 1710-2690 MHz frequency coverage
- ✓ Wi-Fi band
- ✓ Omni-directional antenna
- ✓ IP67 rating
- ✓ N-jack connector (N-Plug available)
- ✓ Easy mounting: Pole/ Wall mount



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz
Antenna element peak gain	2 dBi 2 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pole / Wall Mount/ N-Jack or N-Plug
Dimensions	Ø 49 x 284 mm

3G/4G/LTE Antennas

Ceiling Mount



MEA-698-3800-CM

Indoor Omnidirectional Antenna

Part #: 100-00187-01

- ✔ Wideband Omni antenna ✔ Compact and light weight ✔ Excellent performance ✔ Ceiling mounting ✔ N-female connector ✔ IP65



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1427-2700MHz 3400-3800 MHz
Antenna element peak gain	2.0 ± 0.5 dBi 5 ± 1 dBi 5 ± 1 dBi
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Ceiling Mount /SMA Male
Dimensions	80 × 76 × 13 mm

3G/4G/LTE Antennas Embedded

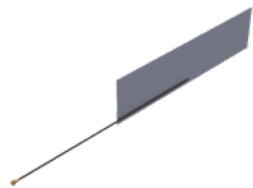


MIA-HB-698-2700

Ultra-Wideband 4G LTE Antenna

Part #: 100-00160-01

✔ 4G LTE 690MHz – 960MHz | 1710MHz – 2700MHz ✔ Ground plane Independent ✔ High Efficiency across all bands ✔ Flexible embedded antenna



Key electrical specifications:

Parameter	Specification
Frequency	698 MHz ~ 960 MHz 1710 MHz ~ 2170 MHz 2500 MHz ~ 2700 MHz
VSWR	< 3.5
Polarization	Linear

Key mechanical specifications:

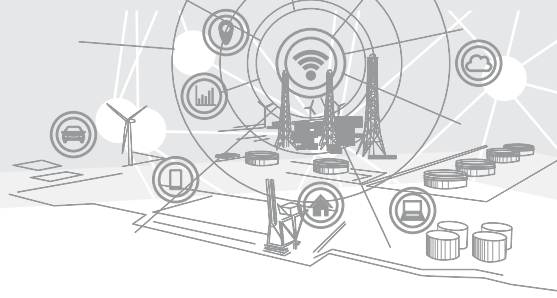
Parameter	Specification
Mounting option / Connector	U.FL connector
Dimensions	120mm x 30mm

WiFi/ Bluetooth/ ZigBee Antennas

MAXTENA
WIRELESS INNOVATIONS COMPANY



WiFi/ Bluetooth/ ZigBee Antennas

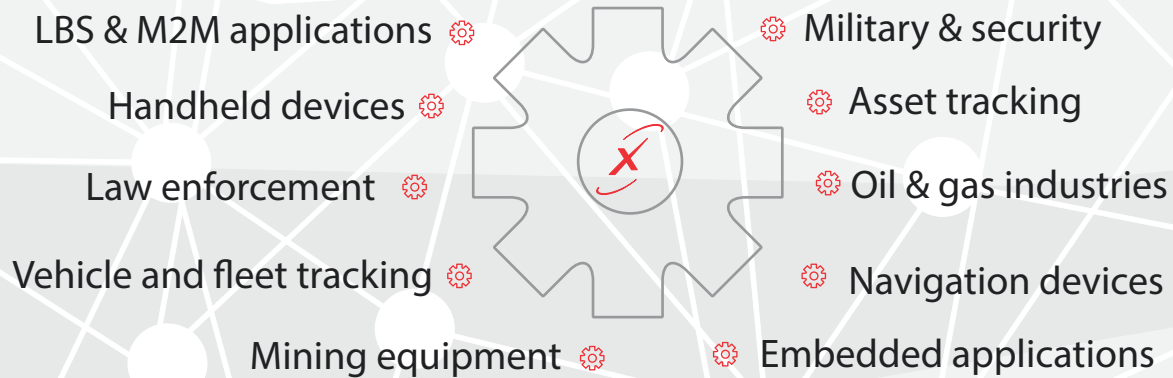


MAXTENA®

We offer a wide selection of WiFi/ Bluetooth/ISM antennas that operate within the 902-928 MHz, 2.4 GHz and 5.7-5.8 bands and include a wide variety of indoor and outdoor antennas.

ISM antennas are ideal for various installations for IOT, smart metering, digital signage, and industrial monitoring. The antennas are available in several different sizes depending on customer requirements. These antennas can be customized with various cable lengths and connectors upon request. All of our external antennas are IP67 rate which allow for the most environmentally challenging installations.

Applications



WiFi Antennas External



MEA-2700-WIFI

Omni Fiberglass WIFI Antenna

Part #: 100-00188-01

- ✓ High Performance
- ✓ 698-960 MHz & 1710-2690 MHz frequency coverage
- ✓ Wi-Fi band
- ✓ Omni-directional antenna
- ✓ IP67 rating
- ✓ N-jack connector (N-Plug available)
- ✓ Easy mounting: Pole/ Wall mount



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz
Antenna element peak gain	2 dBi 2 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pole / Wall Mount/ N-Jack or N-Plug
Dimensions	Ø 49 x 284 mm



MEA-2400-UWB-SM

High Performance 2.4 GHz WIFI Antenna

Part #: 100-00155-01

- ✓ Wi-Fi/ISM/ZigBee/WLAN/Bluetooth 2.4GHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	2400-2483MHz
Peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 48 x 82 mm

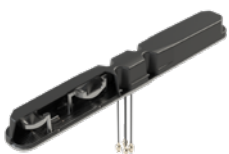


MAXWAVE

MAXWAVE™ 4x4 MIMO TRAIN ANTENNA

Part #: 100-00074-01

- ✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz
- ✓ Optional active GPS/GLONASS antenna with integrated surge arrester
- ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines
- ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces
- ✓ Railway standard compliant to EN50155 and fire retardant according to EN 45545:2013



Key electrical specifications:

Parameter	Specification
Frequency	4 × 698 – 6000 MHz
Pattern	Omnidirectional
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

WiFi Antennas External

NETZ 5IN1

LTE-MIMO/WIFI-MIMO/GNSS 5in1 Antenna

Part #: 100-00095-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ An integrated SMA connectors



Key electrical specifications:

Parameter	Specification
Frequency	1561 MHz 1575.42 MHz 1602 MHz 698-960 MHz 1710-2170 MHz 2300-2690 MHz
Antenna element peak gain	3 dBi Typ. @1561 MHz 3 dBi Typ. @1575 MHz 3.5 dBi Typ. @1602 MHz 4.0 dBi Typ. @698~960 MHz 6.0 dBi Typ. @1710~2170 MHz 5.0 dBi Typ. @2300~2690 MHz
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Permanent Mount/ SMA connectors
Dimensions	Ø 141.98 x 66.5 mm

Netz 5in1-SM

CELLULAR/LTE MIMO, 2.4/5.0 GHz ISM MIMO and GNSS - Screw Mount

Part #: 100-00177-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09



Key electrical specifications:

Parameter	Specification
Cable1 Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Cable1 Antenna element peak	-0.9 dBi 3.3 dBi 4.3 dBi
Cable2 Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Cable2 Antenna element peak	1.4 dBi 3.0 dB 3.0 dBi
Cable3 Frequency	2410-2490 MHz 4920-5925 MHz
Cable3 Antenna element peak	4.8 dBi 3.0 dBi
Cable4 Frequency	2410-2490 MHz 4920-5925 MHz
Cable4 Antenna element peak	4.6 dBi 3.1 dBi
Cable5 Frequency	1575.42 MHz 1602 MHz
Cable5 Antenna element peak	23 dB @ 3 V; 24dB @ 5 V
Radiation pattern	Omni-directional / Hemispherical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male / SMA-Male RP
Dimensions	Ø 96 x 90 mm

Netz 5in1-MIMO

CELLULAR/LTE MIMO and GNSS - Screw mount antenna

Part #: 100-00177-01

- ✓ CELLULAR / LTE & GPS/GLONASS/QZSS/frequencies
- ✓ Galileo frequency range
- ✓ Easy mounting: Screw Mount
- ✓ Heavy Duty antenna
- ✓ High Performance
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions: Ø 96 x H 90 mm
- ✓ IP67, IP69, IK09



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Cable2	Antenna element peak 0.2dBi 3.8dBi 6.0dBi
	Frequency 698-960 MHz 1710-2170 MHz
Cable3	2500-2700 MHz
	Antenna element peak -0.1dBi 3.2dBi -5.6dBi
Cable4	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Cable5	Antenna element peak -0.5dBi 3.1dBi 5.0dBi
	Frequency 698-960 MHz 1710-2170 MHz
Cable6	2500-2700 MHz
	Antenna element peak -0.7dBi 3.0dBi 4.8dBi
Cable7	Frequency 1575.42 MHz 1602 MHz
	Antenna element peak 23dB@3V; 24dB@5V
Radiation pattern	Omni-Directional / Hemispherical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 96 x 90 mm

NETZ 4IN1

4G LTE/Cellular/WIFI and MIMO 4in1 Antenna

Part #: 100-00142-01

- ✓ Screw Mount
- ✓ High Performance
- ✓ Rated IP67, IP69K and IK09
- ✓ Compact Size: 96 x 96 x 94 mm
- ✓ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz
	2500-2700 MHz
Antenna element peak gain	0.9 dBi 3.3 dBi 4.4 dBi
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	96 x 96 x 94 mm

MEA-698-3800-SM

Low Profile 5G LTE Antenna

Part #: 100-00132-01

- ✓ Low profile antenna
- ✓ Covers large frequencies 698-3800 MHz
- ✓ ROHS Compliant
- ✓ High gain for the antenna size
- ✓ PC + ABC housing
- ✓ Exceptional performance over the main 4G/5G bands



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Peak gain	5.5 dBi
Radiation pattern	-10 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	59 x 71mm



MEA-UWB-LTE-90

Ultra-Wideband 4G LTE Antenna

Part #: 100-00139-01

- ✔ LTE / GSM / CDMA / DCS / PCS / WCDMA / UMTS / HSDPA / GPRS / EDGE / GPS / Wi-Fi
- ✔ Ultra-Wide Band Antenna
- ✔ Ground Plane Independent
- ✔ Hinged 90° termination with SMA(M) Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz
Antenna element peak gain	2.5 / 3.5 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male
Dimensions	163 x 22 x 7 mm



MEA-2400-N

2.4 GHz WIFI/Bluetooth/ISM Antenna

Part #: 100-00152-01

- ✔ 2400-2500 GHz frequency coverage
- ✔ 2.4GHz Wi-Fi/Bluetooth/ISM band
- ✔ Omni-directional whip antenna
- ✔ IP66 rating
- ✔ SMA connector



Key electrical specifications:

Parameter	Specification
Frequency	2.4 ~ 2.5 GHz
Antenna element peak gain	2 ± 1 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male connector
Dimensions	9.7 x 80 x 11.7 mm



MEA-2400-N

Ultra-Rugged Dipole Antenna

Part #: 100-00190-01/02

- ✔ High Performance
- ✔ Dual Band 2.4/5 GHz
- ✔ UV Protected
- ✔ IP 67
- ✔ Low profile antenna
- ✔ N-Jack or N-Plug
- ✔ Easy installation: Pole / Wall Mount



Key electrical specifications:

Parameter	Specification
Frequency	2.4 - 2.5 GHz 4.8 - 6.0GH
Antenna element peak gain	6 dBi 6 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

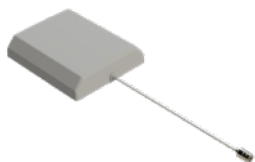
Parameter	Specification
Mounting option / Connector	Pole / Wall Mount / N-Jack or N-Plug
Dimensions	Ø 30 x 280 mm (N-Jack) Ø 23 x 255 mm (N-Plug)

ME A-1710-WM

Indoor Omnidirectional Wall mount Antenna

Part #: 100-00189-01

- ✔ Wideband Omni antenna
- ✔ Compact and light weight
- ✔ Excellent performance
- ✔ Wall mounting
- ✔ N-female connector
- ✔ IP65



Key electrical specifications:

Parameter	Specification
Frequency	2.4 - 2.5 GHz 4.8 - 6.0GHz
Antenna element peak gain	6 dBi 6 dBi
Radiation pattern	Omnidirectional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pole / Wall Mount / N-Jack or N-Plug
Dimensions	Ø 30 x 280 mm (N-Jack) Ø 23 x 255 mm (N-Plug)

ME A-2500-LTE-MIMO

CELLULAR/LTE MIMO Screw Mount

Part #: 100-00211-01

- ✔ Wide-band antenna
- ✔ Easy mounting: Screw Mount
- ✔ Anti-rotation mounting
- ✔ High Performance
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 60 x 69 mm
- ✔ IP67, IP69, IK09
- ✔ Heavy duty antenna.



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Antenna element peak	-0.8 dBi 3.6 dBi 4.1 dB
Cable2	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Antenna element peak	-0.6 dBi 2.8 dBi 3.0 dBi
Radiation pattern	Omnidirectional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 60 x 69 mm

ME A-2500-SM

CELLULAR/LTE MIMO Screw Mount

Part #: 100-00212-01

- ✔ CELLULAR / LTE (698-960 MHz, 1710-2170 MHz, and 2500-2700 MHz)
- ✔ Easy mounting: Screw Mount
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Low profile : 80 x 74 x 14.7 mm
- ✔ IP67



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Antenna element peak	-2.7 dB -3.0 dB -5.9 dB
Cable2	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Antenna element peak	1.4 dBi 2.2 dBi 4.4 dBi
Radiation pattern	Omnidirectional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	80 x 74 x 14.7 mm

WiFi Antennas Embedded

MPA-254-WIFI

WiFi Embedded Antenna – 25mm x 4 mm

Part #: 189-00055-01

- ✔ 2.4GHz & 5.8 GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Terminator using IPEX connector



Key electrical specifications:

Parameter	Specification
Frequency	2400-2500 MHz 5700-5870MH
Gain at Zenith	1.0 dBi typ.
Polarization	Linear

Key mechanical specifications:

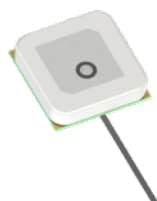
Parameter	Specification
Mounting option / Connector	I-PEX (U.FL)
Dimensions	25 mm x 25 mm x 4 mm

MPA-258-WIFI

WiFi Embedded Antenna – 25mm x 4.5mm

Part #: 189-00051-01

- ✔ 2.4GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Ground Plane Dependent
- ✔ Terminator using IPEX connector
- ✔ Dimensions 25 x 25 x 4.5 mm



Key electrical specifications:

Parameter	Specification
Frequency	2450 ± 50 MHz
Gain at Zenith	> 0.5 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	I-PEX (MHF)
Dimensions	25 x 25 x 4.5 mm

Bluetooth Antennas External

ME A-2400-UWB-SM

High Performance 2.4 GHz WIFI Antenna

Part #: 100-00155-01

- ✓ Wi-Fi/ISM/ZigBee/WLAN/Bluetooth 2.4GHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	2400-2483MHz
Peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 48 x 82 mm

ME A-2700-WIFI

Omni Fiberglass WIFI Antenna

Part #: 100-00188-01

- ✓ High Performance
- ✓ 698-960 MHz & 1710-2690 MHz frequency coverage
- ✓ Wi-Fi band
- ✓ Omni-directional antenna
- ✓ IP67 rating
- ✓ N-jack connector (N-Plug available)
- ✓ Easy mounting: Pole/ Wall mount



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz
Antenna element peak gain	2 dBi 2 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pole / Wall Mount/ N-Jack or N-Plug
Dimensions	Ø 49 x 284 mm

NETZ 5IN1

LTE-MIMO/WIFI-MIMO/GNSS 5in1 Antenna

Part #: 100-00095-01

- ✓ LTE/Wifi/GNSS frequencies
- ✓ High performance
- ✓ MIMO technology solution
- ✓ A low profile design with easy mounting
- ✓ An integrated SMA connectors



Key electrical specifications:

Parameter	Specification
Frequency	1561 MHz 1575.42 MHz 1602 MHz 698-960 MHz 1710-2170 MHz 2300-2690 MHz
Antenna element peak gain	3 dBi Typ. @1561 MHz 3 dBi Typ. @1575 MHz 3.5 dBi Typ. @1602 MHz 4.0 dBi Typ. @698~960 MHz 6.0 dBi Typ. @1710~2170 MHz 5.0 dBi Typ. @2300~2690 MHz
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Permanent Mount/ SMA connectors
Dimensions	Ø 141.98 x 66.5 mm

Bluetooth Antennas External

Netz 5in1-SM

CELLULAR/LTE MIMO, 2.4/5.0 GHz ISM MIMO and GNSS - Screw Mount

Part #: 100-00177-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09



Key electrical specifications:

Parameter	Specification		
Cable1	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.9 dBi	3.3 dBi 4.3 dB
Cable2	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	1.4 dBi	3.0 dB 3.0 dBi
Cable3	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.8 dBi	3.0 dBi
Cable4	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.6 dBi	3.1 dBi
Cable5	Frequency	1575.42 MHz	1602 MHz
	Antenna element peak	23 dB @ 3 V;	24dB @ 5 V
Radiation pattern	Omni-directional / Hemispherical		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male / SMA-Male RP
Dimensions	Ø 96 x 90 mm

MEA-2400-N

Ultra-Rugged Dipole Antenna

Part #: 100-00190-01/02

- ✔ High Performance
- ✔ Dual Band 2.4/5 GHz
- ✔ UV Protected
- ✔ IP 67
- ✔ Low profile antenna
- ✔ N-Jack or N-Plug
- ✔ Easy installation: Pole / Wall Mount



Key electrical specifications:

Parameter	Specification	
Frequency	2.4 - 2.5 GHz	4.8 - 6.0GH
Antenna element peak gain	6 dBi	6 dBi
Radiation pattern	Omni-Directional	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pole / Wall Mount / N-Jack or N-Plug
Dimensions	Ø 30 x 280 mm (N-Jack) Ø 23 x 255 mm (N-Plug)



MEA-2400-SMA

2.4 GHz WIFI/Bluetooth/ISM Antenna

Part #: 100-00152-01

- ✓ 2400-2500 GHz frequency coverage
- ✓ 2.4GHz Wi-Fi/Bluetooth/ISM band
- ✓ Omni-directional whip antenna
- ✓ IP66 rating
- ✓ SMA connector



Key electrical specifications:

Parameter	Specification
Frequency	2.4 ~ 2.5 GHz
Antenna element peak gain	2 ± 1 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male connector
Dimensions	9.7 x 80 x 11.7 mm



MEA-2400-MM

2.4 GHz ISM Antenna – Magnetic Mount

Part #: 100-00173-01

- ✓ 2.4 GHz ISM Band
- ✓ Magnetic Mount
- ✓ 3.8 dBi WIFI Peak Gain
- ✓ Customizable Cable and Connector
- ✓ Ultra rugged housing
- ✓ Dimensions Ø 54 × 14.7 mm
- ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	2410-2490 MHz
Peak gain	3.8 dBi
Polarization	Linear
VSWR	1.4:1

Key mechanical specifications:

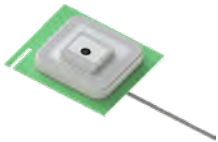
Parameter	Specification
Mounting option / Connector	Magnet Mount / SMA-Male
Dimensions	Ø 54 × 14.7 mm

MPA-254-WIFI

WIFI Embedded Antenna – 25mm x 4 mm

Part #: 189-00055-01

- ✔ 2.4GHz & 5.8 GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Terminator using IPEX connector



Key electrical specifications:

Parameter	Specification
Frequency	2400-2500 MHz 5700-5870MHz
Gain at Zenith	1.0 dBi typ.
Polarization	Linear

Key mechanical specifications:

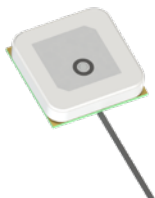
Parameter	Specification
Mounting option / Connector	I-PEX (U.FL)
Dimensions	25 mm x 25 mm x 4 mm

MPA-258-WIFI

WIFI Embedded Antenna – 25mm x 4.5mm

Part #: 189-00051-01

- ✔ 2.4GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Ground Plane Dependent
- ✔ Terminator using IPEX connector
- ✔ Dimensions 25 x 25 x 4.5 mm



Key electrical specifications:

Parameter	Specification
Frequency	2450 ± 50 MHz
Gain at Zenith	> 0.5 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	I-PEX (MHF)
Dimensions	25 x 25 x 4.5 mm

WiFi Terminal Mount Antennas

Screw Mount

MAXWAVE

MAXWAVE™ 4x4 MIMO TRAIN ANTENNA

Part #: 100-00074-01

- ✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz
- ✓ Optional active GPS/GLONASS antenna with integrated surge arrester
- ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines
- ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces
- ✓ Railway standard compliant to EN50155 and fire retardant according to EN 45545:2013



Key electrical specifications:

Parameter	Specification
Frequency	4 x 698 – 6000 MHz
Pattern	Omnidirectional
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

NETZ 4IN1

4G LTE/Cellular/WIFI and MIMO 4in1 Antenna

Part #: 100-00142-01

- ✓ Screw Mount
- ✓ High Performance
- ✓ Rated IP67, IP69K and IK09
- ✓ Compact Size: 96 x 96 x 94 mm
- ✓ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz 2500-2700 MHz
Antenna element peak gain	0.9 dBi 3.3 dBi 4.4 dBi
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	96 x 96 x 94 mm

MEA-SW-700-3800

2G/3G/4G/ISM/WIFI GNSS Antenna

Part #: 189-00046-01

- ✓ 2G/3G/4G/ISM/Wi-Fi & GNSS frequency bands
- ✓ N Type connector & seal ring
- ✓ IP68 rated / UV protected
- ✓ Rugged industrial design
- ✓ Ground plane Independent



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Antenna element peak gain	4.0 dB
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount/ N Type connector
Dimensions	Ø 41 x 84 mm

WiFi Terminal Mount Antennas

Screw Mount



MEA-2400-SMA

2.4 GHz WiFi/Bluetooth/ISM Antenna

Part #: 100-00152-01

✔ 2400-2500 GHz frequency coverage ✔ 2.4GHz Wi-Fi/Bluetooth/ISM band ✔ Omni-directional whip antenna ✔ IP66 rating ✔ SMA connector



Key electrical specifications:

Parameter	Specification
Frequency	2.4 ~ 2.5 GHz
Antenna element peak gain	2 ± 1 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male connector
Dimensions	9.7 x 80 x 11.7 mm

WiFi Terminal Mount Antennas

Wall/ Pole Mount



MEA-2700-WIFI

Omni Fiberglass WiFi Antenna

Part #: 100-00188-01

- ✔ High Performance
- ✔ 698-960 MHz & 1710-2690 MHz frequency coverage
- ✔ Wi-Fi band
- ✔ Omni-directional antenna
- ✔ IP67 rating
- ✔ N-jack connector (N-Plug available)
- ✔ Easy mounting: Pole/ Wall mount



Key electrical specifications:

Parameter	Specification	
Frequency	698-960 MHz	1710-2170 MHz
Antenna element peak gain	2 dBi	2 dBi
Radiation	Omni-directional	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Pole / Wall Mount/ N-Jack or N-Plug
Dimensions	Ø 49 x 284 mm

WiFi Terminal Mount Antennas

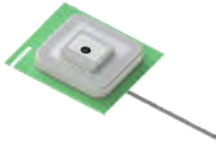
Surface Mount

MPA-254-WIFI

WiFi Embedded Antenna – 25mm x 4 mm

Part #: 189-00055-01

- ✔ 2.4GHz & 5.8 GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Terminator using IPEX connector



Key electrical specifications:

Parameter	Specification
Frequency	2400-2500 MHz 5700-5870MH
Gain at Zenith	1.0 dBi typ.
Polarization	Linear

Key mechanical specifications:

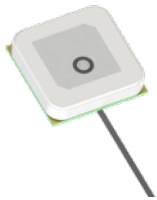
Parameter	Specification
Mounting option / Connector	I-PEX (U.FL)
Dimensions	25 mm x 25 mm x 4 mm

MPA-258-WIFI

WiFi Embedded Antenna – 25mm x 4.5mm

Part #: 189-00051-01

- ✔ 2.4GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Ground Plane Dependent
- ✔ Terminator using IPEX connector
- ✔ Dimensions 25 x 25 x 4.5 mm



Key electrical specifications:

Parameter	Specification
Frequency	2450 ± 50 MHz
Gain at Zenith	> 0.5 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	I-PEX (MHF)
Dimensions	25 x 25 x 4.5 mm

WiFi Terminal Mount Antennas

Magnet Mount



MEA-2400-MM

2.4 GHz ISM Antenna – Magnetic Mount

Part #: 100-00173-01

- ✓ 2.4 GHz ISM Band
- ✓ Magnetic Mount
- ✓ 3.8 dBi WiFi Peak Gain
- ✓ Customizable Cable and Connector
- ✓ Ultra rugged housing
- ✓ Dimensions Ø 54 × 14.7 mm
- ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	2410-2490 MHz
Peak gain	3.8 dBi
Polarization	Linear
VSWR	1.4:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount / SMA-Male
Dimensions	Ø 54 × 14.7 mm

WiFi ZigBee Antennas

Magnet Mount



MEA-2400-MM

2.4 GHz ISM Antenna – Magnetic Mount

Part #: 100-00173-01

- ✓ 2.4 GHz ISM Band
- ✓ Magnetic Mount
- ✓ 3.8 dBi WiFi Peak Gain
- ✓ Customizable Cable and Connector
- ✓ Ultra rugged housin
- ✓ Dimensions Ø 54 × 14.7 mm
- ✓ IP67, IP69K



Key electrical specifications:

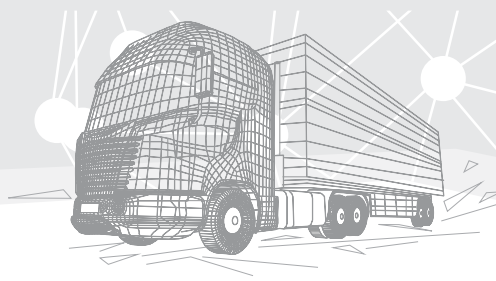
Parameter	Specification
Frequency	2410-2490 MHz
Peak gain	3.8 dBi
Polarization	Linear
VSWR	1.4:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnet Mount / SMA-Male
Dimensions	Ø 54 × 14.7 mm

MIMO Antennas



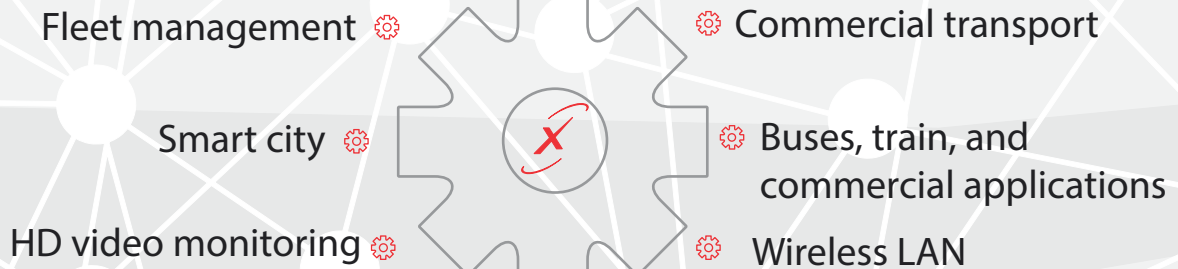


Our patented & fully EN 50155 Certified Rail 4x4 MIMO LTE antennas are the most advanced solutions available. They ensure the most optimal data aggregation connectivity by providing outstanding RF performances.

As technology capabilities increase, the world is becoming more connected and so does the demand for a smart, and fastest growing transportation market. Maxtena is the industry leader in developing new antenna technologies for vehicle – to – vehicle (V2V) and vehicle – to – anything (V2X) applications. We have developed cutting edge dedicated short-range communications (DSRC) antennas which are vehicle and DSRC transponder agnostic. All DSRC antennas are available for external and internal automotive applications.

At Maxtena, we offers the most advanced train and rail antennas in rugged, low profile form factors.

Applications



Discover

Our best seller

Netz 5in1, our LTE-MIMO/WIFI MIMO/GNSS 5in1 Antenna

Netz 5in1

The NETZ 5 in 1 is a MIMO technology solution by Maxtena that combines two LTE antennas, and two WiFi antennas with GNSS. Our 5 in 1 solution is ideal for high data throughput and streaming, video, industrial and IOT applications.

The NETZ 5 in 1 antenna is an omnidirectional, heavy-duty, and waterproof external multi-antenna for use in fleet management, smart cities, and buses, train and commercial transport.

This cutting-edge antenna provides powerful MIMO antenna technology for global coverage LTE and Wi-Fi, plus GPS/GLONASS for constant wireless communication.

It offers a low-profile design with easy mounting and integrated SMA connectors. The antenna is designed with rugged PC+ABS black plastic housing and is ideal for the most demanding environmental challenges.

The standard NETZ 5 in 1 comes with 3 meters RG-174 (GNSS) / CFD-200 (LTE) / CFD-200 (WIFI) and SMA-Male connectors. Cable and connectors are customizable upon request.



Features

- ✓ LTE/Wifi/GNSS frequencies
- ✓ High performance
- ✓ MIMO technology solution
- ✓ A low-profile design with easy mounting
- ✓ An integrated SMA connectors

Suggested Applications include

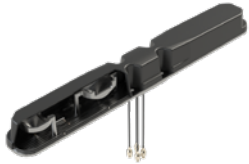
- ✓ Fleet management
- ✓ Commercial transport
- ✓ HD video monitoring
- ✓ Buses, train, and commercial application
- ✓ Smart city

MAXWAVE

MAXWAVE™ 4x4 MIMO TRAIN ANTENNA

Part #: 100-00074-01

- ✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz
- ✓ Optional active GPS/GLONASS antenna with integrated surge arrester
- ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines
- ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces
- ✓ Railway standard compliant to EN50155 and fire retardant according to EN 45545:2013



Key electrical specifications:

Parameter	Specification
Frequency	4 x 698 – 6000 MHz
Pattern	Omnidirectional
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

NETZ 5IN1

LTE-MIMO/WIFI-MIMO/GNSS 5in1 Antenna

Part #: 100-00095-01

- ✓ LTE/Wifi/GNSS frequencies
- ✓ High performance
- ✓ MIMO technology solution
- ✓ A low profile design with easy mounting
- ✓ An integrated SMA connectors



Key electrical specifications:

Parameter	Specification
Frequency	1561 MHz 1602 MHz 1710-2170 MHz
Antenna element peak gain	1575.42 MHz 698-960 MHz 2300-2690 MHz
Radiation pattern	3 dBi Typ. @1561 MHz 3 dBi Typ. @1575 MHz 3.5 dBi Typ. @1602 MHz 4.0 dBi Typ. @698~960 MHz 6.0 dBi Typ. @1710~2170 MHz 5.0 dBi Typ. @2300~2690 MHz
	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Permanent Mount/ SMA connectors
Dimensions	Ø 141.98 x 66.5 mm

NETZ 4IN1

4G LTE/Cellular/WIFI and MIMO 4in1 Antenna

Part #: 100-00142-01

- ✓ Screw Mount
- ✓ High Performance
- ✓ Rated IP67, IP69K and IK09
- ✓ Compact Size: 96 x 96 x 94 mm
- ✓ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz 2500-2700 MHz
Antenna element peak gain	0.9 dBi 3.3 dBi 4.4 dBi
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	96 x 96 x 94 mm

Netz 5in1-SM

CELLULAR/LTE MIMO, 2.4/5.0 GHz ISM MIMO and GNSS - Screw Mount

Part #: 100-00177-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09

Key electrical specifications:

Parameter	Specification		
Cable1	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.9 dBi	3.3 dBi 4.3 dB
Cable2	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	1.4 dBi	3.0 dB 3.0 dBi
Cable3	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.8 dBi	3.0 dBi
Cable4	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.6 dBi	3.1 dBi
Cable5	Frequency	1575.42 MHz	1602 MHz
	Antenna element peak	23 dB @ 3 V;	24dB @ 5 V
Radiation pattern	Omni-directional / Hemispherical		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male / SMA-Male RP
Dimensions	Ø 96 x 90 mm



Netz 5in1-MIMO

CELLULAR/LTE MIMO and GNSS - Screw mount antenna

Part #: 100-00177-01

- ✔ CELLULAR / LTE & GPS/GLONASS/QZSS/frequencies
- ✔ Galileo frequency range
- ✔ Easy mounting: Screw Mount
- ✔ Heavy Duty antenna
- ✔ High Performance
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09

Key electrical specifications:

Parameter	Specification		
Cable1	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	0.2dBi	3.8dBi 6.0dBi
Cable2	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.1dBi	3.2dBi -5.6dBi
Cable3	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.5dBi	3.1dBi 5.0dBi
Cable4	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.7dBi	3.0dBi 4.8dBi
Cable5	Frequency	1575.42 MHz	1602 MHz
	Antenna element peak	23dB@3V;	24dB@5V
Radiation pattern	Omni-Directional / Hemispherical		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 96 x 90 mm





COBRA-LTE700

LTE MIMO & Active GPS High-Performance Transportation Antenna

Part #: 100-00036-01

- ✔ Robust arrow shape housing for easy roof-top alignment
- ✔ MIMO technology
- ✔ One connector for each application; LTE 1, LTE 2 and GPS
- ✔ No ground plane requirements
- ✔ Single-hole mounting with screws on top for easy installation
- ✔ Use of only one multifunction solution



Key electrical specifications:

Parameter	Specification
Frequency	690 - 960 MHz 1700 - 2200 MHz 1575.42 MHz
Antenna element peak gain	4 dBi (typical)
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm



MEA-LTE-MIMO-ISM-SM

Cellular/LTE MIMO and 915 MHz ISM Screw Mount

Part #: 100-00203-01

- ✔ High Performance
- ✔ Easy mounting: Screw Mount
- ✔ Ground Plane Independent
- ✔ Low profile: 96 x 96 x 90 mm
- ✔ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification	
Cable1	Frequency	698-960 MHz 1710-2170 MHz
	Antenna element peak	-1.5 dBi 3.2 dBi 6.5 dBi
Cable2	Frequency	698-960 MHz 1710-2170 MHz
	Antenna element peak	-0.9 dBi 3.0 dBi 5.0 dBi
Cable3	Frequency	902-928 MHz
	Antenna element peak	0.2 dBi
Bandwidth	Omni-Directional	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 96 x 90 mm

Sigfox/LoRa/ISM Antennas






We offer a wide selection of SigFox/LoRa/ISM antennas that operate within the 902-928 MHz, 2.4 GHz and 5.7-5.8 bands and include a wide variety of indoor and outdoor antennas.

ISM antennas are ideal for various installations for IOT, smart metering, digital signage, and industrial monitoring. The antennas are available in several different sizes depending on customer requirements. These antennas can be customized with various cable lengths and connectors upon request. All of our external antennas are IP67 rate which allow for the most environmentally challenging installations.


Applications

Remote mesh networks 

Smart meters 

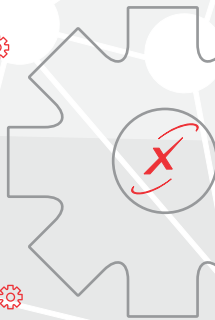
Connected Buildings 

IoT 

 Public Safety

 Industrial Monitoring

 Remote Control



Discover

Our best seller



MEA-868-915-N

Ultra Rugged Dipole Antenna for SIGFOX/LORA/ISM

MEA-868-915-N

Maxtena releases the MEA-868-915-N an Ultra Rugged Dipole Antenna for SIGFOX/LORA/ISM applications.

MEA-868-915-N is a heavy duty, omni-directional fiberglass base station antenna for outdoor applications operating at 868MHz – 915MHz ISM band. It is ideal for long-distance coverage. This antenna is fully compatible with Sigfox/LoRA/ISM standards. The MEA-868-915-N is a dipole antenna which is ideal for various installations for IOT, smart metering, digital signage, and industrial monitoring.

The antenna is supplied with a N-Type connector and is light weight. The UV resistant coated fiberglass housing makes this antenna suitable to be mounted in very challenging robust outdoor environments. It can be connected directly to the access point or can be mounted on the wall or customer device via the N-type connector and a pole-mount and wall-mount bracket is included.

The antenna is IP 65 rated.



Features

- ✓ Suitable to use in Robust Outdoor Environment
- ✓ High performance for increased coverage
- ✓ UV protected
- ✓ Wall & pole mount
- ✓ N-Type Connector
- ✓ IP 65 rated

Suggested Applications include

- ✓ Smart Metering
- ✓ Industrial Monitoring
- ✓ Remote Control
- ✓ IOT & M2M
- ✓ Connected Buildings

ISM Antennas External

ME A-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✓ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✓ Ultra-Wide band antenna
- ✓ High performance
- ✓ Easy mounting: Screw Mount
- ✓ Low Profile: 80 x 76 x 13 mm
- ✓ Ground Plane Independent
- ✓ IP67
- ✓ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-270MHz 1.2 dBi@868MHz 1.7 dBi@915MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

ME A-900-W2-SM

2.4/5.0 GHz & 868/915 MHz ISM - Screw Mount

Part #: 100-00194-01

- ✓ 2.4/5.0 GHz ISM
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ IP67, IK09, IP69K
- ✓ Dimensions Ø 80 x 76 x 13 mm



Key electrical specifications:

Parameter	Specification
Frequency	868 MHz 915 MHz 2.4 GHz 5.0 GHz
Peak Gain	-0.6 dBi@868 MHz -0.2 dBi@915 MHz 4.5 dBi@2.4 GHz 3.9 dBi@5.0 GHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 76 x 13 mm

ME A-868-01-SMA

868 MHz ISM- Connector Mount

Part #: 100-00201-01

- ✓ Small Form Factor
- ✓ High Performance
- ✓ Frequency range 863-870 MHz
- ✓ Low profile: 9 x 48.0mm
- ✓ RoHS Compliant
- ✓ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Antenna element peak gain	-1.2 dB
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	9 x 48.0mm

ME A-868-915-SMA

High Performance 868-915 MHz ISM Antenna

Part #: 100-00153-01

- ✔ Ultra High Performance
- ✔ LoRa/Sigfox/ ISM Band coverage
- ✔ ROHS Compliant
- ✔ Robust Housing IP67 Rated
- ✔ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✔ 868 MHz ISM LoRa band antenna
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Low Profile
- ✔ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Axial Ratio	-1.4 dBi
Polarization	Linear
VSWR	1.1:1

Key mechanical specifications:

Parameter	Specification
Connector	SMA Male
Cable Type	D302 Standard
Dimensions	80 x 76 x 13 mm

ME A-868-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00172-01

- ✔ 868 MHz ISM - 863-870 MHz
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 50 x 50.8 mm
- ✔ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Peak gain	-0.8 dBi
Polarization	Linear
VSWR	≤ 1.9:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 50 x 50.8 mm

ISM Antennas

External

ME A-915-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00171-01

- ✓ 915 MHz ISM
- ✓ Screw Mount
- ✓ Ground Plane Dependent
- ✓ High Performance
- ✓ Low Profile
- ✓ Customizable Cable and Connector
- Dimensions 80 x 74 x 14.7 mm
- ✓ IP67



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Average gain	-3 dB
Polarization	Linear
VSWR	1.5:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male (other available)
Dimensions	80 x 74 x 14.7 mm

ME A-698-3800-SM

Low Profile 5G LTE Antenna

Part #: 100-00132-01

- ✓ Low profile antenna
- ✓ Covers large frequencies 698-3800 MHz
- ✓ ROHS Compliant
- ✓ High gain for the antenna size
- ✓ PC + ABC housing
- ✓ Exceptional performance over the main 4G/5G bands



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Peak gain	5.5 dBi
Radiation pattern	-10 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	59 x 71 mm

ME A-UWB-LTE-90

Ultra-Wideband 4G LTE Antenna

Part #: 100-00139-01

- ✓ LTE / GSM / CDMA / DCS / PCS / WCDMA / UMTS / HSDPA / GPRS / EDGE / GPS / Wi-Fi
- ✓ Ultra-Wide Band Antenna
- ✓ Ground Plane Independent
- ✓ Hinged 90° termination with SMA(M) Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz
Antenna element peak gain	2.5 / 3.5 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male
Dimensions	163 x 22 x 7 mm

ISM Antennas External

Netz 5in1-SM

CELLULAR/LTE MIMO, 2.4/5.0 GHz ISM MIMO and GNSS - Screw Mount

Part #: 100-00177-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09

Key electrical specifications:

Parameter	Specification		
Cable1	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.9 dBi	3.3 dBi 4.3 dB
Cable2	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	1.4 dBi	3.0 dB 3.0 dBi
Cable3	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.8 dBi	3.0 dBi
Cable4	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.6 dBi	3.1 dBi
Cable5	Frequency	1575.42 MHz	1602 MHz
	Antenna element peak	23 dB @ 3 V;	24dB @ 5 V
Radiation pattern	Omni-directional / Hemispherical		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male / SMA-Male RP
Dimensions	Ø 96 x 90 mm



Netz 5in1-MIMO

CELLULAR/LTE MIMO and GNSS - Screw mount antenna

Part #: 100-00177-01

- ✔ CELLULAR / LTE & GPS/GLONASS/QZSS/frequencies
- ✔ Galileo frequency range
- ✔ Easy mounting: Screw Mount
- ✔ Heavy Duty antenna
- ✔ High Performance
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09

Key electrical specifications:

Parameter	Specification		
Cable1	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	0.2dBi	3.8dBi 6.0dBi
Cable2	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.1dBi	3.2dBi -5.6dBi
Cable3	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.5dBi	3.1dBi 5.0dBi
Cable4	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.7dBi	3.0dBi 4.8dBi
Cable5	Frequency	1575.42 MHz	1602 MHz
	Antenna element peak	23dB@3V;	24dB@5V
Radiation pattern	Omni-Directional / Hemispherical		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 96 x 90 mm





MEA-2700-LTE

Low Profile LTE Antenna

Part #: 100-00126-01

- ✓ Low profile design for easy installation
- ✓ Heavy duty applications
- ✓ Can be used for mobile and fixed base applications
- ✓ Compact housing that makes the antenna ideal for indoor or outdoor applications
- ✓ 698-960/1710-2170/2500-2700 MHz
- ✓ Small size: 22 x 66mm
- ✓ ROHS compliant



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2300-2700 MHz
Antenna element peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N-Female connector
Dimensions	22 x 66mm



MAXWAVE

MAXWAVE™ 4x4 MIMO TRAIN ANTENNA

Part #: 100-00074-01

- ✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz
- ✓ Optional active GPS/GLONASS antenna with integrated surge arrester
- ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines
- ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces
- ✓ Railway standard compliant to EN50155 and fire retardant according to EN 45545:2013



Key electrical specifications:

Parameter	Specification
Frequency	4 x 698 – 6000 MHz
Pattern	Omnidirectional
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

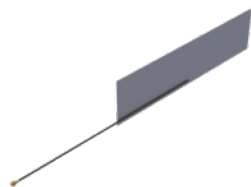
ISM Antennas External

MIA-HB-698-2700

Ultra-Wideband 4G LTE Antenna

Part #: 100-00160-01

- ✓ 4G LTE 690MHz – 960MHz | 1710MHz – 2700MHz
- ✓ Ground plane Independent
- ✓ High Efficiency across all bands
- ✓ Flexible embedded antenna



Key electrical specifications:

Parameter	Specification
Frequency	698 MHz ~ 960 MHz 1710 MHz ~ 2170 MHz 2500 MHz ~ 2700 MHz
VSWR	< 3.5
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	U.FL connector
Dimensions	120mm x 30mm

MEA-LW2-SM

External Cellular/LTE, ISM and GNSS Antenna – Screw Mount

Part #: 189-00061-01

- ✓ 2in1 antenna: Cellular/LTE and 2.4/5.0GHz ISM
- ✓ Wide band antenna
- ✓ Ground Plane Independent
- ✓ Rugged housing
- ✓ IP67 rated
- ✓ IP69 rated
- ✓ Low profile: 80 x 74 x 43 mm
- ✓ Anti-Rotation mounting
- ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Peak gain	2.7 dBi 5.1 dBi 5.3 dBi
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 43 mm

MEA-2700-UWB-SM

High Performance 4G LTE Antenna

Part #: 100-00141-01

- ✓ High Performance
- ✓ 4G LTE Ultra-Wideband Automotive Antenna
- ✓ ROHS Compliant
- ✓ Custom Cable and Connector
- ✓ Rated IP67



Key electrical specifications:

Parameter	Specification
Frequency	698-960/1710-2700 MHz
Peak gain	3 dBi
Radiation pattern	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ N-connector
Dimensions	Ø 48 x 82 mm



MEA-LG-AM

CELLULAR/LTE and GPS/GLONASS Adhesive Mount

Part #: 100-00193-01

- ✓ Cable 1: CELLULAR/LTE - 698-960 MHz; 1710-2170 MHz; 2500-2700 MHz / Cable 2: GPS/GLONASS/QZSS/Galileo - 1575-1606 MHz
- ✓ Adhesive Mount ✓ Ground Plane Independent ✓ Customizable Cable and Connector Dimensions ✓ Low profile: 83 x 35 x 13.3 mm
- ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Antenna element peak	-2.7 dB	-3.0 dB	-5.9 dB
Polarization	Linear		
VSWR	1.8:1	1.3:1	2.0:1
Frequency	1575.42 MHz	1598-1606 MHz	
Active gain	28 dB @ 2.7 V		
Polarization	RHCP		
VSWR	≤ 1.4:1		

Key mechanical specifications:

Parameter	Specification
Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm



MEA-LTE3MM-SMA

CELLULAR / LTE Magnetic Mount

Part #: 100-00185-01

- ✓ CELLULAR / LTE - 698-960 MHz 1710-2170 MHz, 2500-2700 MHz ✓ Magnetic Mount ✓ Rugged design ✓ High Performance
- ✓ Customizable Cable and Connector ✓ Dimensions Ø 54 x 80 mm ✓ IP67, IP69K

Key electrical specifications:

Parameter	Specification		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Antenna element peak gain	-2.6 dB	-2.9 dB	-3.6 dB
Radiation	Omni-directional		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic Mount / SMA-Male
Dimensions	Ø 54 x 80



MEA-3L-SMA

Cellular/LTE Antenna – Connector Mount

Part #: 100-00166-01

- ✓ CELLULAR / LTE frequency ✓ Connector Mount ✓ Low Profile ✓ Wide band Antenna Dimensions 48 x Ø 9 mm ✓ Easy integration
- ✓ High performance

Key electrical specifications:

Parameter	Specification	
Frequency	698-960 MHz	1710-2170 MHz
Efficiency	62.4%	62.4%
Polarization	Linear	
Average gain	-2.1 dB	2.1 dB
Bandwidth	700/850/900 MHz 1700/1800/1900/2100 MHz	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 38 mm



MEA-LGG-AM

Cellular/LTE and GPS/GLONASS Antenna – Adhesive Mount

Part #: 100-00163-01

- ✓ 2in 1 antenna (CELLULAR/LTE,GPS/GLONASS/QZSS/Galileo)
- ✓ Adhesive Mount
- ✓ High Performance
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions 150.5 x 42 x 15.3 mm
- ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Antenna element peak	3.4 dBi	3.5 dBi	3.9 dBi
Efficiency	76%	69%	76%
VSWR	1.7:1	1.4:1	1.5:1
Frequency	1575.42 MHz	1598-1606 MHz	
Active gain	28 dB @ 2.7 V		
Polarization	RHCP		
VSWR	≤ 1.4:1		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA-Male
Dimensions	150.5 x 42 x 15.3 mm



MEA-3-GGL

GPS/GLONASS/LTE Antenna & 2G/3G LTE SOLUTION

Part #: 189-00053-01

- ✓ Covers GNSS & LTE Bands
- ✓ 2 in 1 Low Profile Antenna
- ✓ Rugged IP67
- ✓ Customizable Cables and Connectors
- ✓ Small Size
- ✓ Easy Magnet Mounting
- ✓ Quality Textured Covert Design

Key electrical specifications:

Parameter	Specification		
Frequency	1575.42 MHz	1602 MHz	
Polarization	Linear		
Polarization	3.0 dBi Typ.	3.5 dBi Typ	
VSWR	≤ 2.0:1		
Frequency	1575.42 MHz	1602 MHz	
Power Consumption	9 Typ. mA @3.3V		
Antenna Gain	28 dB Typ. / 25 dB Min		
VSWR	≤ 2.0:1		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Antenna element peak	1.5 dBi	0.5 dBi	0.5 dBi
Efficiency	25%	30%	30%
VSWR	≤ 5.5	≤ 4.0	≤ 4.0

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Foam adhesive / SMA, FAKRA or custom
Dimensions	(L) 55 x (W) 55 x (H) 20 mm



ME A-LTE-MIMO-ISM-SM

Cellular/LTE MIMO and 915 MHz ISM Screw Mount

Part #: 100-00203-01

- ✓ High Performance
- ✓ Easy mounting: Screw Mount
- ✓ Ground Plane Independent
- ✓ Low profile: 96 x 96 x 90 mm
- ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification	
Cable1	Frequency	698-960 MHz 1710-2170 MHz
	Antenna element peak	-1.5 dBi 3.2 dBi 6.5 dBi
Cable2	Frequency	698-960 MHz 1710-2170 MHz
	Antenna element peak	-0.9 dBi 3.0 dBi 5.0 dBi
Cable3	Frequency	902-928 MHz
	Antenna element peak	0.2 dBi
Bandwidth	Omni-Directional	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 96 x 90 mm

NETZ 4IN1

4G LTE/Cellular/WIFI and MIMO 4in1 Antenna

Part #: 100-00142-01

- ✓ Screw Mount
- ✓ High Performance
- ✓ Rated IP67, IP69K and IK09
- ✓ Compact Size: 96 x 96 x 94 mm
- ✓ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz
Antenna element peak gain	0.9 dBi 3.3 dBi 4.4 dBi
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	96 x 96 x 94 mm

ME A-UWB-LTE-90

Ultra-Wideband 4G LTE Antenna

Part #: 100-00139-01

- ✓ LTE / GSM / CDMA / DCS / PCS / WCDMA / UMTS / HSDPA / GPRS / EDGE / GPS / Wi-Fi
- ✓ Ultra-Wide Band Antenna
- ✓ Ground Plane Independent
- ✓ Hinged 90° termination with SMA(M) Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz
Antenna element peak gain	2.5 / 3.5 dBi
Radiation	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA Male
Dimensions	163 x 22 x 7 mm

ME A-2500-LTE-MIMO

CELLULAR/LTE MIMO Screw Mount

Part #: 100-00211-01

- Wide-band antenna
- Easy mounting: Screw Mount
- Anti-rotation mounting
- High Performance
- Customizable Cable and Connector
- Dimensions: Ø 60 x 69 mm
- IP67, IP69, IK09
- Heavy duty antenna.



Key electrical specifications:

Parameter	Specification	
Cable1	Frequency	698-960 MHz 1710-2170 MHz
	Antenna element peak	2500-2700 MHz
Cable2	Frequency	-0.8 dBi 3.6 dBi 4.1 dBi
	Antenna element peak	698-960 MHz 1710-2170 MHz
Radiation pattern	Antenna element peak	2500-2700 MHz
		-0.6 dBi 2.8 dBi 3.0 dBi
		Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 60 x 69 mm

ME A-2500-SM

CELLULAR/LTE MIMO Screw Mount

Part #: 100-00212-01

- CELLULAR / LTE (698-960 MHz, 1710-2170 MHz, and 2500-2700 MHz)
- Easy mounting: Screw Mount
- Ground Plane Independent
- Customizable Cable and Connector
- Low profile : 80 x 74 x 14.7 mm
- IP67



Key electrical specifications:

Parameter	Specification	
Cable1	Frequency	698-960 MHz 1710-2170 MHz
	Antenna element peak	2500-2700 MHz
Cable2	Frequency	-2.7 dB -3.0 dB -5.9 dB
	Antenna element peak	698-960 MHz 1710-2170 MHz
Radiation pattern	Antenna element peak	2500-2700 MHz
		1.4 dBi 2.2 dBi 4.4 dBi
		Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	80 x 74 x 14.7 mm

COBRA-LTE700

LTE MIMO & Active GPS High-Performance Transportation Antenna

Part #: 100-00036-01

- Robust arrow shape housing for easy roof-top alignment
- MIMO technology
- One connector for each application; LTE 1, LTE 2 and GPS
- No ground plane requirements
- Single-hole mounting with screws on top for easy installation
- Use of only one multifunction solution



Key electrical specifications:

Parameter	Specification
Frequency	690 - 960 MHz
	1700 - 2200 MHz
	1575.42 MHz
Antenna element peak gain	4 dBi (typical)
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

ISM Antennas

External

ME A-5800-MM

5GNR Magnetic Mount Antenna

Part #: 100-00200-01

- ✓ 5GNR Frequency range (617-960 MHz, 1427-2690 MHz, 3300-5000 MHz, 5150-5925 MHz)
- ✓ Easy mounting: Magnetic Mount
- ✓ High Performance
- ✓ Customizable Cable and Connector
- ✓ Low profile: Ø 31 x 109 mm



Key electrical specifications:

Parameter	Specification
Frequency	617-960MHz 1427-2690MHz 3300-5000MHz 5150-5925MHz
Antenna element peak gain	1.0 dBi @ 617-960 MHz 2.9 dBi @1427-2690 MHz 2.5 dBi @3300-5000 MHz 0.4 dBi @5150-5925 MHz
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	105.1 x 30.1 x 6.7 mm

ME A-DSRC-02Z

External Mount DSRC Antenna

Part #: 100-00089-01

- ✓ External mount DSRC antenna for 5850 - 5950MHz
- ✓ Different mounting options available
- ✓ IPX5
- ✓ SMA & N-Type or customer specified connector



Key electrical specifications:

Parameter	Specification
Frequency	5850 - 5950 MHz
Antenna passive peak gain	5.0 dBi Typ. @ 5850-5950 MHz
Impedence	50Ω

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA / N-Type or customer specied
Dimensions	120 x 120 x 45 mm

ME A-DSRC-01P

External Mount DSRC Antenna

Part #: Part #: 100-00087-01

- ✓ External mount DSRC antenna for 5850 - 5950MHz
- ✓ IPX7
- ✓ SMA &N-Type or customer specified connector
- ✓ Foam Adhesive
- ✓ 30 cm cable length RG-174



Key electrical specifications:

Parameter	Specification
Frequency	5850 - 5950 MHz
Antenna passive peak gain	5.0 dBi Typ. @ 2300-2700 MHz
Impedence	50Ω

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA / N-Type or customer specied
Dimensions	105.1 x 30.1 x 6.7 mm

ME A-DSRC-03Z

External Mount DSRC Antenna

Part #: 100-00088-01

- External mount DSRC antenna for 5850 - 5950MHz
- IPX7
- N-Type connector



Key electrical specifications:

Parameter	Specification
Frequency	5850 - 5950 MHz
Antenna passive peak gain	5.0 dBi Typ. @ 2300-2700 MHz
Impedence	50Ω

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N-Type or customer specied
Dimensions	Ø 20 x 215 mm

ME A-2410-ISM

2.4/5.0 GHz ISM Screw Mount Antenna

Part #: 100-00196-01

- Screw Mount
- Anti-Rotation Mechanism
- Ground Plane Independent
- Customizable Cable and Connector
- IP67
- IK09
- IP69K



Key electrical specifications:

Parameter	Specification
Frequency	2410-2490 MHz 4920-5925 MHz
Peak Gain	2.6 dBi 4.4 dBi
Radiation Pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount/ SMA connector
Dimensions	Ø 77.3 x 65.5 mm

ME A-868-SM-50

868 MHz ISM Screw Mount

Part #: 189-00064-01

- Screw Mount
- Low Profile
- Customized Cable and Connector
- Dimensions 77.3 x 15 mm
- IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Peak Gain	-0.8 dBi
Radiation Pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount/ SMA connector
Dimensions	Ø 77.3 x 15 mm



MPA-716-868

868 MHz ISM PASSIVE PATCH

Part #: 189-00050-01

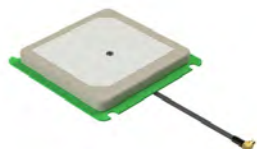
- ✔ 868 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material

Key electrical specifications:

Parameter	Specification
Frequency	865 MHz - 867MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm



MPA-716-915

915 MHz ISM PASSIVE PATCH

Part #: 189-00068-01

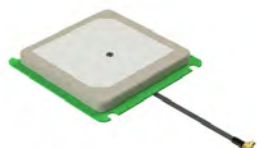
- ✔ 915 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material

Key electrical specifications:

Parameter	Specification
Frequency	915 MHz ± 1 MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm



MPA-254-WIFI

WIFI Embedded Antenna – 25mm x 4 mm

Part #: 189-00055-01

- ✔ 2.4GHz & 5.8 GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Terminator using IPEX connector

Key electrical specifications:

Parameter	Specification
Frequency	2400-2500 MHz 5700-5870MHz
Gain at Zenith	1.0 dBi typ.
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	I-PEX (U.FL)
Dimensions	25 mm x 25 mm x 4 mm

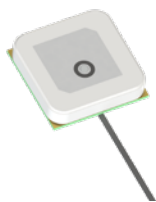


MPA-258-WIFI

WIFI Embedded Antenna – 25mm x 4.5mm

Part #: 189-00051-01

- ✔ 2.4GHz Wi-Fi frequency
- ✔ Integrated Ground plane with cable
- ✔ Easy mounting
- ✔ Surface Mount
- ✔ Compact size
- ✔ Advanced Ceramic Material
- ✔ Ground Plane Dependent
- ✔ Terminator using IPEX connector
- ✔ Dimensions 25 x 25 x 4.5 mm



Key electrical specifications:

Parameter	Specification
Frequency	2450 ± 50 MHz
Gain at Zenith	> 0.5 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	I-PEX (MHF)
Dimensions	25 x 25 x 4.5 mm

MEA-868-01-SMA 868 MHz ISM- Connector Mount

Part #: 100-00201-01

- ✔ Small Form Factor
- ✔ High Performance
- ✔ Frequency range 863-870 MHz
- ✔ Low profile: 9 x 48.0mm
- ✔ RoHS Compliant
- ✔ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Antenna element peak gain	-1.2 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

MEA-915-01-SMA High Efficiency 915 MHz ISM Antenna

Part #: 100-00159-01

- ✔ Small Form Factor
- ✔ High Performance
- ✔ Frequency range 900 - 1000 MHz
- ✔ Low profile: 9 x 48.0mm
- ✔ RoHS Compliant
- ✔ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	915 MHz
Antenna element peak gain	3.3 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

MEA-868-915-SMA High Performance 868-915 MHz ISM Antenna

Part #: 100-00153-01

- ✔ Ultra High Performance
- ✔ LoRa/Sigfox/ ISM Band coverage
- ✔ ROHS Compliant
- ✔ Robust Housing IP67 Rated
- ✔ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-868-SM

High Performance 868 MHz ISM Antenna

Part #: 100-00154-01

- ✓ 868MHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	865-868MHz
Peak gain	3-5 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-915-SM

High Performance 915 MHz ISM Antenna

Part #: 100-00156-01

- ✓ 915MHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	902-928MHz
Peak gain	3-5 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-LGI-SMA

5G NR & Iridium GNSS Antenna – Screw Mount

Part #: 189-00059-01

- ✓ 3in1 antenna: 5G NR, Iridium and GNSS
- ✓ Ultra-Wide band antenna
- ✓ High performance
- ✓ Easy mounting: Screw Mount
- ✓ Anti-Rotation Mounting
- ✓ Optimized for Iridium network
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low profile 80 × 74 × 25.6 mm
- ✓ IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz 3300-5000 MHz 1616 - 1627 MHz
Antenna element peak gain	1427-2690 MHz 5150-5925 MHz 1559 - 1608 MHz
	2.3 dBi 2.6 dBi 5.2 dBi
	5.1 dBi 2.7 dBi 28 dB @ 2.7 V
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 × 74 × 25.6 mm

MEA-868-915-N

Ultra-Rugged Dipole Antenna

Part #: 189-00045-01

- ✓ SigFox/LoRa/ISM (868MHz – 915MHz) ✓ High performance for increased coverage ✓ UV protected ✓ N-Type Connector Rated IP65



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	6 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N - Connector
Dimensions	∅ 23 x 795mm

MEA-LW2-SM

External Cellular/LTE, ISM and GNSS Antenna – Screw Mount

Part #: 189-00061-01

- ✓ 2in1 antenna: Cellular/LTE and 2.4/5.0GHz ISM ✓ Wide band antenna ✓ Ground Plane Independent ✓ Rugged housing ✓ IP67 rated ✓ IP69 rated ✓ Low profile: 80 x 74 x 43 mm ✓ Anti-Rotation mounting ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Peak gain	2.7 dBi 5.1 dBi 5.3 dBi
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 43 mm

MEA-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✓ 868 MHz ISM LoRa band antenna ✓ Screw Mount ✓ Anti-Rotation Mechanism ✓ Ground Plane Independent ✓ Customizable Cable and Connector ✓ Low Profile ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Axial Ratio	-1.4 dB
Polarization	Linear
VSWR	1.1:1

Key mechanical specifications:

Parameter	Specification
Connector	SMA Male
Cable Type	D302 Standard
Dimensions	80 x 76 x 13 mm

ME A-915-ISM

915 MHz ISM Screw Mount

Part #: 100-00184-01

- ✓ 915 MHz ISM LoRa band antenna
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low Profile
- ✓ Dimensions Ø 54 x 80 mm
- ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Axial Ratio	RHCP
Polarization	Vertical
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 25.6 mm

ME A-868-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00172-01

- ✓ 868 MHz ISM - 863-870 MHz
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions: Ø 50 x 50.8 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Peak gain	-0.8 dBi
Polarization	Linear
VSWR	≤ 1.9:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 50 x 50.8 mm

ME A-915-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00171-01

- ✓ 915 MHz ISM
- ✓ Screw Mount
- ✓ Ground Plane Dependent
- ✓ High Performance
- ✓ Low Profile
- ✓ Customizable Cable and Connector
- ✓ Dimensions 80 x 74 x 14.7 mm
- ✓ IP67



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Average gain	-3 dB
Polarization	Linear
VSWR	1.5:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male (other available)
Dimensions	80 x 74 x 14.7 mm



MEA-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✔ 915 MHz ISM - 902-928 MHz
- ✔ LoRa/ Sigfox/ NB-IOT
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Low Profile Dimensions Ø 9 x 48 mm
- ✔ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Peak gain	4.0 dBi
Polarization	Linear
VSWR	1.4:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 9 x 48.0mm



MEA-LTE-MIMO-ISM-SM

Cellular/LTE MIMO and 915 MHz ISM Screw Mount

Part #: 100-00203-01

- ✔ High Performance
- ✔ Easy mounting: Screw Mount
- ✔ Ground Plane Independent
- ✔ Low profile: 96 x 96 x 90 mm
- ✔ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -1.5 dBi 3.2 dBi 6.5 dBi
Cable2	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -0.9 dBi 3.0 dBi 5.0 dBi
Cable3	Frequency 902-928 MHz
	Antenna element peak 0.2 dBi
	Bandwidth Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 96 x 90 mm

ME A-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✔ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Low Profile: 80 x 76 x 13 mm
- ✔ Ground Plane Independent
- ✔ IP67
- ✔ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-270MHz 1.2 dBi@ 868MHz 1.7 dBi@915MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

ME A-900-W2-SM

2.4/5.0 GHz & 868/915 MHz ISM - Screw Mount

Part #: 100-00194-01

- ✔ 2.4/5.0 GHz ISM
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ IP67, IK09, IP69K
- ✔ Dimensions Ø 80 x 76 x 13 mm



Key electrical specifications:

Parameter	Specification
Frequency	868 MHz 915 MHz 2.4 GHz 5.0 GHz
Peak Gain	-0.6 dBi@ 868 MHz -0.2 dBi@915 MHz 4.5 dBi@ 2.4 GHz 3.9 dBi@5.0 GHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 76 x 13 mm

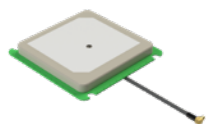


MPA-716-868

868 MHz ISM PASSIVE PATCH

Part #: 189-00050-01

- ✔ 868 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

Parameter	Specification
Frequency	865 MHz - 867MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

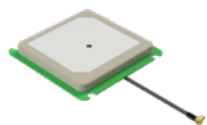


MPA-716-915

915 MHz ISM PASSIVE PATCH

Part #: 189-00068-01

- ✔ 915 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

Parameter	Specification
Frequency	915 MHz ± 1 MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

MEA-868-01-SMA 868 MHz ISM- Connector Mount

Part #: 100-00201-01

- ✔ Small Form Factor
- ✔ High Performance
- ✔ Frequency range 863-870 MHz
- ✔ Low profile: 9 x 48.0mm
- ✔ RoHS Compliant
- ✔ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Antenna element peak gain	-1.2 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

MEA-915-01-SMA High Efficiency 915 MHz ISM Antenna

Part #: 100-00159-01

- ✔ Small Form Factor
- ✔ High Performance
- ✔ Frequency range 900 - 1000 MHz
- ✔ Low profile: 9 x 48.0mm
- ✔ RoHS Compliant
- ✔ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	915 MHz
Antenna element peak gain	3.3 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

MEA-868-915-SMA High Performance 868-915 MHz ISM Antenna

Part #: 100-00153-01

- ✔ Ultra High Performance
- ✔ LoRa/Sigfox/ ISM Band coverage
- ✔ ROHS Compliant
- ✔ Robust Housing IP67 Rated
- ✔ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-868-SM

High Performance 868 MHz ISM Antenna

Part #: 100-00154-01

- ✓ 868MHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	865-868MHz
Peak gain	3-5 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-915-SM

High Performance 915 MHz ISM Antenna

Part #: 100-00156-01

- ✓ 915MHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	902-928MHz
Peak gain	3-5 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-LGI-SMA

5GNR & Iridium GNSS Antenna – Screw Mount

Part #: 189-00059-01

- ✓ 3in1 antenna: 5GNR, Iridium and GNSS
- ✓ Ultra-Wide band antenna
- ✓ High performance
- ✓ Easy mounting: Screw Mount
- ✓ Anti-Rotation Mounting
- ✓ Optimized for Iridium network
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low profile 80 × 74 × 25.6 mm
- ✓ IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz
	3300-5000 MHz
	1616 - 1627 MHz
Antenna element peak gain	1427-2690 MHz
	5150-5925 MHz
	1559 - 1608 MHz
	2.3 dBi
Polarization	5.1 dBi
	2.6 dBi
	5.2 dBic
	28 dB @ 2.7 V
	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 × 74 × 25.6 mm

ME A-868-915-N

Ultra-Rugged Dipole Antenna

Part #: 189-00045-01

- ✓ SigFox/LoRA/ISM (868MHz – 915MHz) ✓ High performance for increased coverage ✓ UV protected ✓ N-Type Connector Rated IP65



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	6 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N - Connector
Dimensions	ø 23 x 795mm

ME A-LW2-SM

External Cellular/LTE, ISM and GNSS Antenna – Screw Mount

Part #: 189-00061-01

- ✓ 2in1 antenna: Cellular/LTE and 2.4/5.0GHz ISM ✓ Wide band antenna ✓ Ground Plane Independent ✓ Rugged housing ✓ IP67 rated ✓ IP69 rated ✓ Low profile: 80 x 74 x 43 mm ✓ Anti-Rotation mounting ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Peak gain	2.7 dBi 5.1 dBi 5.3 dBi
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 43 mm

ME A-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✓ 868 MHz ISM LoRa band antenna ✓ Screw Mount ✓ Anti-Rotation Mechanism ✓ Ground Plane Independent ✓ Customizable Cable and Connector ✓ Low Profile ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Axial Ratio	-1.4 dB
Polarization	Linear
VSWR	1.1:1

Key mechanical specifications:

Parameter	Specification
Connector	SMA Male
Cable Type	D302 Standard
Dimensions	80 x 76 x 13 mm

ME A-915-ISM

915 MHz ISM Screw Mount

Part #: 100-00184-01

- ✓ 915 MHz ISM LoRa band antenna
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low Profile
- ✓ Dimensions Ø 54 x 80 mm
- ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Axial Ratio	RHCP
Polarization	Vertical
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 25.6 mm

ME A-868-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00172-01

- ✓ 868 MHz ISM - 863-870 MHz
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions: Ø 50 x 50.8 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Peak gain	-0.8 dBi
Polarization	Linear
VSWR	≤ 1.9:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 50 x 50.8 mm

ME A-915-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00171-01

- ✓ 915 MHz ISM
- ✓ Screw Mount
- ✓ Ground Plane Dependent
- ✓ High Performance
- ✓ Low Profile
- ✓ Customizable Cable and Connector
- ✓ Dimensions 80 x 74 x 14.7 mm
- ✓ IP67



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Average gain	-3 dB
Polarization	Linear
VSWR	1.5:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male (other available)
Dimensions	80 x 74 x 14.7 mm



MEA-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✓ 915 MHz ISM - 902-928 MHz
- ✓ LoRa/ Sigfox/ NB-IOT
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low Profile Dimensions Ø 9 x 48 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Peak gain	4.0 dBi
Polarization	Linear
VSWR	1.4:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 9 x 48.0mm



MEA-LTE-MIMO-ISM-SM

Cellular/LTE MIMO and 915 MHz ISM Screw Mount

Part #: 100-00203-01

- ✓ High Performance
- ✓ Easy mounting: Screw Mount
- ✓ Ground Plane Independent
- ✓ Low profile: 96 x 96 x 90 mm
- ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -1.5 dBi 3.2 dBi 6.5 dBi
Cable2	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -0.9 dBi 3.0 dBi 5.0 dBi
Cable3	Frequency 902-928 MHz
	Antenna element peak 0.2 dBi
Bandwidth	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 96 x 90 mm

ME A-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✔ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Low Profile: 80 x 76 x 13 mm
- ✔ Ground Plane Independent
- ✔ IP67
- ✔ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-270MHz 1.2 dBi@ 868MHz 1.7 dBi@91MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

ME A-900-W2-SM

2.4/5.0 GHz & 868/915 MHz ISM - Screw Mount

Part #: 100-00194-01

- ✔ 2.4/5.0 GHz ISM
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ IP67, IK09, IP69K
- ✔ Dimensions Ø 80 x 76 x 13 mm



Key electrical specifications:

Parameter	Specification
Frequency	868 MHz 915 MHz 2.4 GHz 5.0 GHz
Peak Gain	-0.6 dBi@ 868 MHz -0.2 dBi@915 MHz 4.5 dBi@ 2.4 GHz 3.9 dBi@5.0 GHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 76 x 13 mm

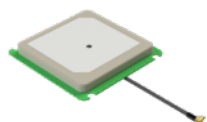


MPA-716-868

868 MHz ISM PASSIVE PATCH

Part #: 189-00050-01

- ✔ 868 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

Parameter	Specification
Frequency	865 MHz - 867MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

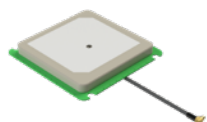


MPA-716-915

915 MHz ISM PASSIVE PATCH

Part #: 189-00068-01

- ✔ 915 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

Parameter	Specification
Frequency	915 MHz ± 1 MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

Narrowband IoT Antennas External

MEA-868-01-SMA 868 MHz ISM- Connector Mount

Part #: 100-00201-01

- ✔ Small Form Factor
- ✔ High Performance
- ✔ Frequency range 863-870 MHz
- ✔ Low profile: 9 x 48.0mm
- ✔ RoHS Compliant
- ✔ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Antenna element peak gain	-1.2 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

MEA-915-01-SMA High Efficiency 915 MHz ISM Antenna

Part #: 100-00159-01

- ✔ Small Form Factor
- ✔ High Performance
- ✔ Frequency range 900 - 1000 MHz
- ✔ Low profile: 9 x 48.0mm
- ✔ RoHS Compliant
- ✔ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	915 MHz
Antenna element peak gain	3.3 dBi
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

MEA-868-915-SMA High Performance 868-915 MHz ISM Antenna

Part #: 100-00153-01

- ✔ Ultra High Performance
- ✔ LoRa/Sigfox/ ISM Band coverage
- ✔ ROHS Compliant
- ✔ Robust Housing IP67 Rated
- ✔ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

Narrowband IoT Antennas External

ME A-868-SM

High Performance 868 MHz ISM Antenna

Part #: 100-00154-01

- ✓ 868MHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	865-868MHz
Peak gain	3-5 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-915-SM

High Performance 915 MHz ISM Antenna

Part #: 100-00156-01

- ✓ 915MHz frequencies
- ✓ IP67 rated
- ✓ High gain & efficiency
- ✓ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	902-928MHz
Peak gain	3-5 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-LGI-SMA

5GNR & Iridium GNSS Antenna – Screw Mount

Part #: 189-00059-01

- ✓ 3in1 antenna: 5GNR, Iridium and GNSS
- ✓ Ultra-Wide band antenna
- ✓ High performance
- ✓ Easy mounting: Screw Mount
- ✓ Anti-Rotation Mounting
- ✓ Optimized for Iridium network
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low profile 80 × 74 × 25.6 mm
- ✓ IP69



Key electrical specifications:

Parameter	Specification
Frequency	617-960 MHz 3300-5000 MHz 1616 - 1627 MHz
Antenna element peak gain	1427-2690 MHz 5150-5925 MHz 1559 - 1608 MHz
Polarization	2.3 dBi 2.6 dBi 5.2 dBic 5.1 dBi 2.7dBi 28 dB @ 2.7 V Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 × 74 × 25.6 mm

Narrowband IoT Antennas External

MEA-868-915-N

Ultra-Rugged Dipole Antenna

Part #: 189-00045-01

- ✓ SigFox/LoRA/ISM (868MHz – 915MHz) ✓ High performance for increased coverage ✓ UV protected ✓ N-Type Connector Rated IP65



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	6 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N - Connector
Dimensions	∅ 23 x 795mm

MEA-LW2-SM

External Cellular/LTE, ISM and GNSS Antenna – Screw Mount

Part #: 189-00061-01

- ✓ 2in1 antenna: Cellular/LTE and 2.4/5.0GHz ISM ✓ Wide band antenna ✓ Ground Plane Independent ✓ Rugged housing ✓ IP67 rated ✓ IP69 rated ✓ Low profile: 80 x 74 x 43 mm ✓ Anti-Rotation mounting ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Peak gain	2.7 dBi 5.1 dBi 5.3 dBi
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 43 mm

MEA-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✓ 868 MHz ISM LoRa band antenna ✓ Screw Mount ✓ Anti-Rotation Mechanism ✓ Ground Plane Independent ✓ Customizable Cable and Connector ✓ Low Profile ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Axial Ratio	-1.4 dB
Polarization	Linear
VSWR	1.1:1

Key mechanical specifications:

Parameter	Specification
Connector	SMA Male
Cable Type	D302 Standard
Dimensions	80 x 76 x 13 mm

Narrowband IoT Antennas External

ME A-915-ISM

915 MHz ISM Screw Mount

Part #: 100-00184-01

- ✓ 915 MHz ISM LoRa band antenna
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low Profile
- ✓ Dimensions Ø 54 x 80 mm
- ✓ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Axial Ratio	RHCP
Polarization	Vertical
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 25.6 mm

ME A-868-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00172-01

- ✓ 868 MHz ISM - 863-870 MHz
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Dimensions: Ø 50 x 50.8 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Peak gain	-0.8 dBi
Polarization	Linear
VSWR	≤ 1.9:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 50 x 50.8 mm

ME A-915-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00171-01

- ✓ 915 MHz ISM
- ✓ Screw Mount
- ✓ Ground Plane Dependent
- ✓ High Performance
- ✓ Low Profile
- ✓ Customizable Cable and Connector
- ✓ Dimensions 80 x 74 x 14.7 mm
- ✓ IP67



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Average gain	-3 dB
Polarization	Linear
VSWR	1.5:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male (other available)
Dimensions	80 x 74 x 14.7 mm

Narrowband IoT Antennas External

ME A-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✓ 915 MHz ISM - 902-928 MHz
- ✓ LoRa/ Sigfox/ NB-IOT
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ Low Profile Dimensions Ø 9 x 48 mm
- ✓ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Peak gain	4.0 dBi
Polarization	Linear
VSWR	1.4:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

ME A-LTE-MIMO-ISM-SM

Cellular/LTE MIMO and 915 MHz ISM Screw Mount

Part #: 100-00203-01

- ✓ High Performance
- ✓ Easy mounting: Screw Mount
- ✓ Ground Plane Independent
- ✓ Low profile: 96 x 96 x 90 mm
- ✓ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -1.5 dBi 3.2 dBi 6.5 dBi
Cable2	Frequency 698-960 MHz 1710-2170 MHz
	Antenna element peak -0.9 dBi 3.0 dBi 5.0 dBi
Cable3	Frequency 902-928 MHz
	Antenna element peak 0.2 dBi
Bandwidth	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 96 x 90 mm

Narrowband IoT Antennas External

ME A-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✔ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Low Profile: 80 x 76 x 13 mm
- ✔ Ground Plane Independent
- ✔ IP67
- ✔ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-270MHz 1.2 dBi@ 868MHz 1.7 dBi@915MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

ME A-900-W2-SM

2.4/5.0 GHz & 868/915 MHz ISM - Screw Mount

Part #: 100-00194-01

- ✔ 2.4/5.0 GHz ISM
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ IP67, IK09, IP69K
- ✔ Dimensions Ø 80 x 76 x 13 mm



Key electrical specifications:

Parameter	Specification
Frequency	868 MHz 915 MHz 2.4 GHz 5.0 GHz
Peak Gain	-0.6 dBi@ 868 MHz -0.2 dBi@915 MHz 4.5 dBi@ 2.4 GHz 3.9 dBi@5.0 GHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 76 x 13 mm

Narrowband IoT Antennas Embedded

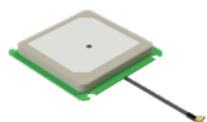


MPA-716-868

868 MHz ISM PASSIVE PATCH

Part #: 189-00050-01

- ✔ 868 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

Parameter	Specification
Frequency	865 MHz - 867MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

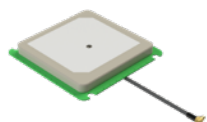


MPA-716-915

915 MHz ISM PASSIVE PATCH

Part #: 189-00068-01

- ✔ 915 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

Parameter	Specification
Frequency	915 MHz ± 1 MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

LPWA Antennas External

ME A-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✔ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Low Profile: 80 x 76 x 13 mm
- ✔ Ground Plane Independent
- ✔ IP67
- ✔ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-270MHz 1.2 dBi@ 868MHz 1.7 dBi@91MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

ME A-900-W2-SM

2.4/5.0 GHz & 868/915 MHz ISM - Screw Mount

Part #: 100-00194-01

- ✔ 2.4/5.0 GHz ISM
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ IP67, IK09, IP69K
- ✔ Dimensions Ø 80 x 76 x 13 m



Key electrical specifications:

Parameter	Specification
Frequency	868 MHz 915 MHz 2.4 GHz 5.0 GHz
Peak Gain	-0.6 dBi@ 868 MHz -0.2 dBi@915 MHz 4.5 dBi@ 2.4 GHz 3.9 dBi@5.0 GHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 76 x 13 mm

ME A-868-01-SMA

868 MHz ISM- Connector Mount

Part #: 100-00201-01

- ✔ Small Form Factor
- ✔ High Performance
- ✔ Frequency range 863-870 MHz
- ✔ Low profile: 9 x 48.0mm
- ✔ RoHS Compliant
- ✔ Connector Type: SMA Male



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Antenna element peak gain	-1.2 dB
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA Male
Dimensions	Ø 9 x 48.0mm

ME A-868-915-SMA

High Performance 868-915 MHz ISM Antenna

Part #: 100-00153-01

- ✔ Ultra High Performance
- ✔ LoRa/Sigfox/ ISM Band coverage
- ✔ ROHS Compliant
- ✔ Robust Housing IP67 Rated
- ✔ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	3 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-868-SM

High Performance 868 MHz ISM Antenna

Part #: 100-00154-01

- ✔ 868MHz frequencies
- ✔ IP67 rated
- ✔ High gain & efficiency
- ✔ Custom cable & connector options



Key electrical specifications:

Parameter	Specification
Frequency	865-868MHz
Peak gain	3-5 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 48 x 82 mm

ME A-868-915-N

Ultra-Rugged Dipole Antenna

Part #: 189-00045-01

- ✔ SigFox/LoRa/ISM (868MHz – 915MHz)
- ✔ High performance for increased coverage
- ✔ UV protected
- ✔ N-Type Connector Rated IP65



Key electrical specifications:

Parameter	Specification
Frequency	868-915 MHz
Peak gain	6 dBi
Polarization	Vertical

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N - Connector
Dimensions	ø 23 x 795mm

MEA-868-ISM

868 MHz ISM SCREW MOUNT

Part #: 100-00198-01

- ✔ 868 MHz ISM LoRa band antenna
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Low Profile
- ✔ IP67, IP69K



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Axial Ratio	-1.4 dB
Polarization	Linear
VSWR	1.1:1

Key mechanical specifications:

Parameter	Specification
Connector	SMA Male
Cable Type	D302 Standard
Dimensions	80 x 76 x 13 mm

ME A-868-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00172-01

- ✔ 868 MHz ISM - 863-870 MHz
- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 50 x 50.8 mm
- ✔ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	863-870 MHz
Peak gain	-0.8 dBi
Polarization	Linear
VSWR	≤ 1.9:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male
Dimensions	Ø 50 x 50.8 mm

ME A-915-SM-LP

868 MHz ISM Antenna – Screw Mount

Part #: 100-00171-01

- ✔ 915 MHz ISM
- ✔ Screw Mount
- ✔ Ground Plane Dependent
- ✔ High Performance
- ✔ Low Profile
- ✔ Customizable Cable and Connector
- ✔ Dimensions 80 x 74 x 14.7 mm
- ✔ IP67



Key electrical specifications:

Parameter	Specification
Frequency	902-928 MHz
Average gain	-3 dB
Polarization	Linear
VSWR	1.5:1

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA Male (other available)
Dimensions	80 x 74 x 14.7 mm

LPWA Antennas External

MEA-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✔ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Low Profile: 80 x 76 x 13 mm
- ✔ Ground Plane Independent
- ✔ IP67
- ✔ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-270MHz 1.2 dBi@ 868MHz 1.7 dBi@91MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 × 74 × 25.6 mm

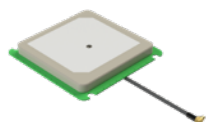


MPA-716-868

868 MHz ISM PASSIVE PATCH

Part #: 189-00050-01

- ✔ 868 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

Parameter	Specification
Frequency	865 MHz - 867MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

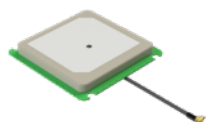


MPA-716-915

915 MHz ISM PASSIVE PATCH

Part #: 189-00068-01

- ✔ 915 MHz ISM Band
- ✔ High antenna performance
- ✔ Low profile
- ✔ Adhesive mounting
- ✔ Pin connector
- ✔ Advanced Ceramic Material



Key electrical specifications:

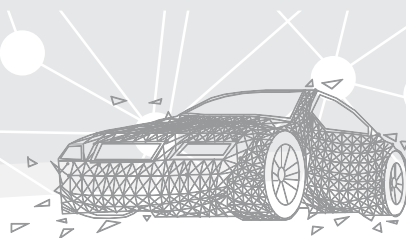
Parameter	Specification
Frequency	915 MHz ± 1 MHz
Polarization	RHCP
Axial Ratio	≤ 5 dB
VSWR	≤ 1.5

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm

Transportation Antennas





Our patented & fully EN 50155 Certified Rail 4x4 MIMO LTE antennas are the most advanced solutions available. They ensure the most optimal data aggregation connectivity by providing outstanding RF performances.

As technology capabilities increase, the world is becoming more connected and so does the demand for a smart, and fastest growing transportation market. Maxtena is the industry leader in developing new antenna technologies for vehicle – to – vehicle (V2V) and vehicle – to – anything (V2X) applications. We have developed cutting edge dedicated short-range communications (DSRC) antennas which are vehicle and DSRC transponder agnostic. All DSRC antennas are available for external and internal automotive applications.

At Maxtena, we offers the most advanced train and rail antennas in rugged, low profile form factors.

Applications

LBS & M2M applications

Handheld devices

Law enforcement

Vehicle and fleet tracking

Mining equipment

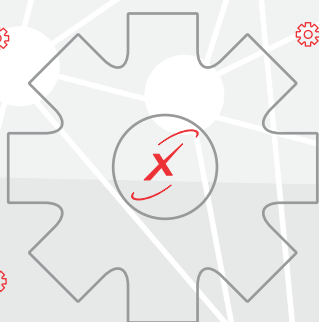
Military & security

Asset tracking

Oil & gas industries

Navigation devices

Embedded applications



Maxwave, our exclusive LTE WIFI MIMO

Antenna for Transportation

MAXWAVE

Maxtena Launches Maxwave™ a LTE/WiFi MIMO Antenna for Transportation

Maxtena designed this antenna to scale in performance and evolve as the train's wireless systems advance, providing reliable high-speed wireless internet to onboard systems. Installing two of the 4x4 Maxwave antennas in the 8x8 configuration will provide high-performance 4x4 technology immediately, and scaling to 8x8 is as simple as installing the new onboard system modems. The antenna is mounted externally on the train's roof and provides a patented omnidirectional coverage that is unmatched by comparable antennas. The antenna's superior isolation maximizes the performance between Maxwave elements as well as other antennas on the train roof while retaining remarkable efficiency.

Maxwave is easy to maintain, install, and upgrade on any train rooftop, and it is designed to be compliant with all US, European, and International Railway Certification Standards. It is also intended to be among the lowest profile, high-performance antennas on the market. Additionally, a single 8x8 model is planned for release which can configure to 16x16 MIMO performance using the same installation methods. Maxwave is perfect for high-speed trains, commuter trains, metro trains, trolleys, and even buses and other mass transit cars, and can be used for freight cars and rail CCTV systems as well.



Maxwave is easy to maintain, install, and upgrade on any train rooftop, and it is designed to be compliant with all US, European, and International Railway Certification Standards. It is also intended to be among the lowest profile, high-performance antennas on the market. Additionally, a single 8x8 model is planned for release which can configure to 16x16 MIMO performance using the same installation methods. Maxwave is perfect for high-speed trains, commuter trains, metro trains, trolleys, and even buses and other mass transit cars, and can be used for freight cars and rail CCTV systems as well.

Features

- ✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz
- ✓ Covers all cellular, LTE, WIFI and WiMAX frequency bands
- ✓ Optional active GPS/GLONASS antenna with integrated surge arrestor
- ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines and passenger safety
- ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces
- ✓ Railway standard compliant design to EN50155 and re retardant design according to EN 45545:2013

Suggested applications include

- ✓ Fleet management
- ✓ Commercial transport
- ✓ HD video monitoring
- ✓ Buses, train, and commercial applications
- ✓ Smart city
- ✓ And also change products benefits to features



MEA-DSRC-02Z

External Mount DSRC Antenna

Part #: 100-00089-01

- ✓ External mount DSRC antenna for 5850 - 5950MHz
- ✓ Different mounting options available
- ✓ IPX5
- ✓ SMA & N-Type or customer specified connector



Key electrical specifications:

Parameter	Specification
Frequency	5850 - 5950 MHz
Antenna passive peak gain	5.0 dBi Typ. @ 5850-5950 MHz
Impedence	50Ω

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA / N-Type or customer specied
Dimensions	120 x 120 x 45 mm



MEA-DSRC-01P

External Mount DSRC Antenna

Part #: Part #: 100-00087-01

- ✓ External mount DSRC antenna for 5850 - 5950MHz
- ✓ IPX7
- ✓ SMA & N-Type or customer specified connector
- ✓ Foam Adhesive
- ✓ 30 cm cable length RG-174



Key electrical specifications:

Parameter	Specification
Frequency	5850 - 5950 MHz
Antenna passive peak gain	5.0 dBi Typ. @ 2300-2700 MHz
Impedence	50Ω

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA / N-Type or customer specied
Dimensions	105.1 x 30.1 x 6.7 mm



MEA-DSRC-03Z

External Mount DSRC Antenna

Part #: 100-00088-01

- ✓ External mount DSRC antenna for 5850 - 5950MHz
- ✓ IPX7
- ✓ N-Type connector



Key electrical specifications:

Parameter	Specification
Frequency	5850 - 5950 MHz
Antenna passive peak gain	5.0 dBi Typ. @ 2300-2700 MHz
Impedence	50Ω

Key mechanical specifications:

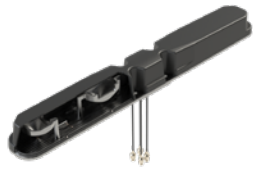
Parameter	Specification
Mounting option / Connector	N-Type or customer specied
Dimensions	Ø 20 x 215 mm

MAXWAVE

MAXWAVE™ 4x4 MIMO TRAIN ANTENNA

Part #: 100-00074-01

✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz ✓ Optional active GPS/GLONASS antenna with integrated surge arrester ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces ✓ Railway standard compliant to EN50155 and fire retardant according to EN 45545:2013



Key electrical specifications:

Parameter	Specification
Frequency	4 × 698 – 6000 MHz
Pattern	Omnidirectional
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

GPS timing Antennas



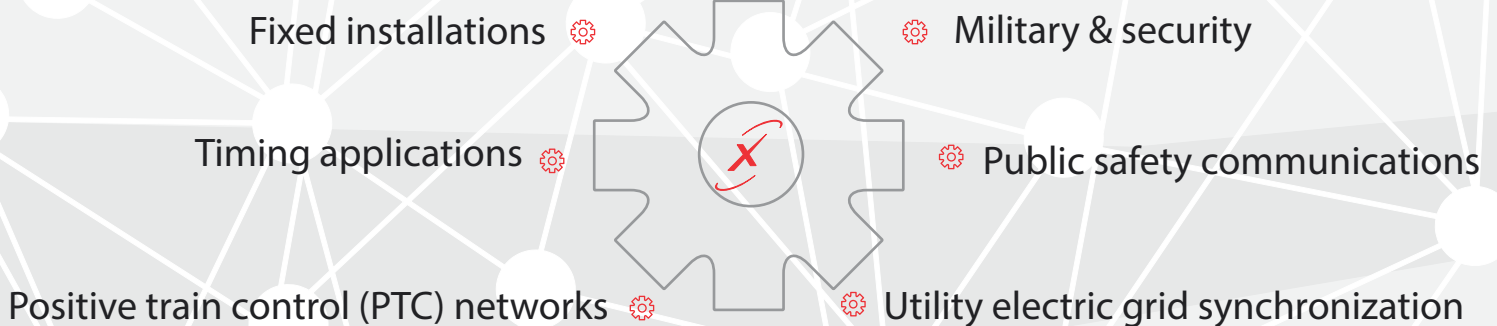


Our GNSS Timing antennas are state of the art designed and developed rugged solutions which are IP69K rated and versatile for any installation necessary. The antennas are fully customizable and feature high gain LNA's along with superb filtering capabilities.

Precise time is crucial to a variety of economic activities around the world. Communication systems, electrical power grids, and financial networks all rely on precision timing for synchronization and operational efficiency. GNSS enables users to determine the time to within 100 billionths of a second, without the cost of owning and operating atomic clocks.

Maxtena has the latest antenna technology and products for professional precision timing applications.

Applications



Explore

Our new release



MEA-1575-TM-TNC

For professional precision timing applications

MEA-1575-TM-TNC

Precise time is crucial to a variety of economic activities around the world. Communication systems, electrical power grids, and financial networks all rely on precision timing for synchronization and operational efficiency. GPS enables users to determine the time to within 100 billionths of a second, without the cost of owning and operating atomic clocks. Maxtena has the latest antenna technology and products for professional precision timing applications. MEA-1575-TM-TNC is a very rugged GPS timing outdoor antenna solution by Maxtena covering GPS L1/GLONASS L1, Beidou B1, Galileo E1, AND QZSS L1 frequency bands. The antenna is ideal for professional precision timing applications. This antenna allows wideband coverage and achieves superior out of band rejection with a high gain of 40dB. The MEA-1575-TM-TNC provides exceptional circular polarized signal reception exceptional multipath rejection and a wide voltage input range of 2.5 to 10 VDC. It ideal for various outdoor GPS Timing installations.

The MEA-1575-TM-TNC is equipped with a TNC female connector and is ideal for any global GNSS time synchronization application that requires an externally mounted antenna. The antenna is designed with rugged waterproof housing (IP67 compliant) and is ideal for the most demanding environmental challenges. It can be mounted through a hole or L-Bracket.



Features

- ✓ High bandwidth for GNSS coverage
- ✓ Low VSWR
- ✓ High Gain Performance
- ✓ High out of band rejection
- ✓ Outdoor use
- ✓ Designed for harsh environment 40dB LNA Gain
- ✓ Wide voltage input range: 2.5 to 10 VDC
- ✓ IP67 Compliant
- ✓ Filtering RF Jamming environment

Suggested Applications include

- ✓ Timing applications
- ✓ Military and security
- ✓ Utility electric grid synchronization
- ✓ Positive train control (PTC) networks
- ✓ Public safety communications
- ✓ Fixed installations



MEA-1575-TM-TNC

External Mount DSRC Antenna

External Mount DSRC Antenna

✔ High bandwidth for GNSS coverage: GPS L1/GLONASS L1, Beidou B1, Galileo E1, AND QZSS L1 frequency bands ✔ Low VSWR ✔ High Gain Performance ✔ High out of band rejection ✔ Outdoor use Designed for harsh environment 40dB LNA Gain ✔ Wide voltage input range: 2.5 to 10 VDC ✔ IP67 Compliant ✔ Filtering RF Jamming environment



Key electrical specifications:

Parameter	Specification
Frequency	1559-1606 MHz
Antenna element peak gain	40dBi
Impedance	50Ω

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	A screw mount/ TNC female connector Through hole/L-Bracket (not included) Pole mounting via clamp (included)
Dimensions	ø 66.5mmx76.4 mm

Combination antenna

MAXTENA
WIRELESS INNOVATIONS COMPANY






Maxtena's combination antenna include advanced RF technologies all in one configuration like GNSS, LTE, WiFi and ISM. This allows the customers to have increased efficiencies, performances and advantages. The consolidation of antennas leads to more innovative products and excessive cost savings.

Maxtena provides a wide range of multiband antennas starting from 2-in-1 and 3-in-1, to 5-in-1 antennas combination to increase efficiency and coverage while maintaining outstanding isolation specifications.

Applications

Fleet management 

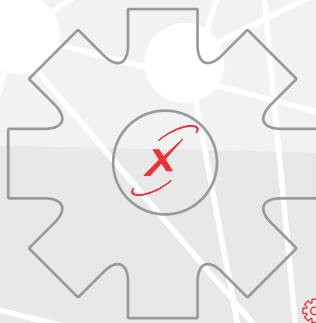
 Asset tracking

Telematics 

 Security and Surveillance

IOT 

 Vending Machines



Our new launch **MEA-LWIG-SM**

5G NR, 2.4/5.0/6.0 GHz ISM, Iridium & GNSS Antenna

MEA-LWIG-SM

The MEA-LWIG-SM Screw Mount Antenna is a 4-in-1 low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-LWIG-SM covers all 5G NR, ISM, Iridium and GPS/GLONASS/QZSS/Galileo standard frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications.

The high performance and low profile make this antenna ideal for the most challenging installations.

The 5G NR Antenna (Cable 1) covers frequency range within 5G NR, 4G LTE, 2G, 3G standards. It operates within 617MHz-5925MHz frequency range. The antenna has an omni-directional radiation pattern, and it is ideal for maintaining constant network connectivity.

The 2.4/5.0/6.0 GHz ISM antenna (Cable 2) covers a complete ISM frequency coverage. It operates between 2410MHz-7125 MHz frequency range. The antenna has an omni-directional radiation pattern, and it is ideal for telematics systems, remote surveillance, and asset tracking.

The Iridium antenna (Cable 3) covers the Iridium standards. It operates within 1616MHz-1627MHz frequency range. The antenna provides exceptional pattern control, polarization purity and high efficiency. The antenna provides outstanding performance for any Iridium SBD telematics and IOT applications.

The GNSS active antenna (Cable 4) covers the GPS, QZSS, Galileo and GLONASS frequency standards. It operates within 1575.42MHz and 1598MHz-1606MHz frequency range. The antenna has a hemispherical radiation pattern, and it is ideal to provide accuracy, and constant connectivity.

This screw mount antenna is easy to install with maximum durability offering IP67 rated housing and anti-rotation mounting. The MEA-LWIG-SM has four cables with a SMA-Male standard connectors, 3m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types.



Features

- ✓ 4in1 antenna
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Customizable Cable and Connector
- ✓ Dimensions Ø 146 x 31.5 mm
- ✓ IK09
- ✓ IP67
- ✓ IP69K

Suggested Applications include

- ✓ IoT applications
- ✓ Telematic
- ✓ Navigation
- ✓ Satellite Communications
- ✓ LTE applications

Combination antenna

Screw mount

NETZ 4IN1

4G LTE/Cellular/WIFI and MIMO 4in1 Antenna

Part #: 100-00142-01

- ✔ Screw Mount
- ✔ High Performance
- ✔ Rated IP67, IP69K and IK09
- ✔ Compact Size: 96 x 96 x 94 mm
- ✔ Custom Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170MHz 2500-2700 MHz
Antenna element peak gain	0.9 dBi 3.3 dBi 4.4 dBi
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	96 x 96 x 94 mm

NETZ 5IN1

LTE-MIMO/WIFI-MIMO/GNSS 5in1 Antenna

Part #: 100-00095-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ An integrated SMA connectors



Key electrical specifications:

Parameter	Specification
Frequency	1561 MHz 1575.42 MHz 1602 MHz 698-960 MHz 1710-2170 MHz 2300-2690 MHz
Antenna element peak gain	3 dBi Typ. @1561 MHz 3 dBi Typ. @1575 MHz 3.5 dBi Typ. @1602 MHz 4.0 dBi Typ. @698~960 MHz 6.0 dBi Typ. @1710~2170 MHz 5.0 dBi Typ. @2300~2690 MHz
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Permanent Mount/ SMA connectors
Dimensions	Ø 141.98 x 66.5 mm

Combination antenna

Screw mount

Netz 5in1-SM

CELLULAR/LTE MIMO, 2.4/5.0 GHz ISM MIMO and GNSS - Screw Mount

Part #: 100-00177-01

- ✔ LTE/Wifi/GNSS frequencies
- ✔ High performance
- ✔ MIMO technology solution
- ✔ A low profile design with easy mounting
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09

Key electrical specifications:

Parameter	Specification		
Cable1	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.9 dBi	3.3 dBi 4.3 dB
Cable2	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	1.4 dBi	3.0 dB 3.0 dBi
Cable3	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.8 dBi	3.0 dBi
Cable4	Frequency	2410-2490 MHz	4920-5925 MHz
	Antenna element peak	4.6 dBi	3.1 dBi
Cable5	Frequency	1575.42 MHz	1602 MHz
	Antenna element peak	23 dB @ 3 V;	24dB @ 5 V
Radiation pattern	Omni-directional / Hemispherical		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male / SMA-Male RP
Dimensions	Ø 96 x 90 mm



Netz 5in1-MIMO

CELLULAR/LTE MIMO and GNSS - Screw mount antenna

Part #: 100-00177-01

- ✔ CELLULAR / LTE & GPS/GLONASS/QZSS/frequencies
- ✔ Galileo frequency range
- ✔ Easy mounting: Screw Mount
- ✔ Heavy Duty antenna
- ✔ High Performance
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 96 x H 90 mm
- ✔ IP67, IP69, IK09

Key electrical specifications:

Parameter	Specification		
Cable1	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	0.2dBi	3.8dBi 6.0dBi
Cable2	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.1dBi	3.2dBi -5.6dBi
Cable3	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.5dBi	3.1dBi 5.0dBi
Cable4	Frequency	698-960 MHz	1710-2170 MHz
	Antenna element peak	-0.7dBi	3.0dBi 4.8dBi
Cable5	Frequency	1575.42 MHz	1602 MHz
	Antenna element peak	23dB@3V;	24dB@5V
Radiation pattern	Omni-Directional / Hemispherical		

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 96 x 90 mm



Combination antenna

Screw mount

MEA-LGI-SMA

5G NR & Iridium GNSS Antenna – Screw Mount

Part #: 189-00059-01

- ✔ 3in1 antenna: 5G NR, Iridium and GNSS
- ✔ Ultra-Wide band antenna
- ✔ High performance
- ✔ Easy mounting: Screw Mount
- ✔ Anti-Rotation Mounting
- ✔ Optimized for Iridium network
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Low profile 80 × 74 × 25.6 mm
- ✔ IP69



Key electrical specifications:

Parameter	Specification	
Frequency	617-960 MHz 3300-5000 MHz 1616 - 1627 MHz	1427-2690 MHz 5150-5925 MHz 1559 - 1608 MHz
Antenna element peak gain	2.3 dBi 2.6 dBi 5.2 dBi	5.1 dBi 2.7 dBi 28 dB @ 2.7 V
Polarization	Linear	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw on design / SMA male
Dimensions	80 × 74 × 25.6 mm

MEA-LW2-SM

External Cellular/LTE, ISM and GNSS Antenna – Screw Mount

Part #: 189-00061-01

- ✔ 2in1 antenna: Cellular/LTE and 2.4/5.0GHz ISM
- ✔ Wide band antenna
- ✔ Ground Plane Independent
- ✔ Rugged housing
- ✔ IP67 rated
- ✔ IP69 rated
- ✔ Low profile: 80 x 74 x 43 mm
- ✔ Anti-Rotation mounting
- ✔ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Peak gain	2.7 dBi 5.1 dBi 5.3 dBi
Radiation pattern	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male connector
Dimensions	80 x 74 x 43 mm

Combination antenna

Screw mount

MEA-LTE-MIMO-ISM-SM

Cellular/LTE MIMO and 915 MHz ISM Screw Mount

Part #: 100-00203-01

- ✔ High Performance
- ✔ Easy mounting: Screw Mount
- ✔ Ground Plane Independent
- ✔ Low profile: 96 x 96 x 90 mm
- ✔ Customized Cable and Connector



Key electrical specifications:

Parameter	Specification
Cable1	Frequency
	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Antenna element peak	-1.5 dBi 3.2 dBi 6.5 dBi
Cable2	Frequency
	698-960 MHz 1710-2170 MHz 2500-2700 MHz
Antenna element peak	-0.9 dBi 3.0 dBi 5.0 dBi
Cable3	Frequency
	902-928 MHz
Antenna element peak	0.2 dBi
Bandwidth	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount/ SMA Male
Dimensions	Ø 96 x 90 mm

MEA-5GGG-SM

5GNR and GPS/GLONASS Screw Mount

Part #: 100-00204-01

- ✔ 5GNR & GPS/GLONASS/QZSS/Galileo frequency coverage
- ✔ Easy Mounting: Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Low Profile
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ Dimensions 80 x 74 x 25.6 mm
- ✔ IP67, IP69



Key electrical specifications:

Parameter	Specification
Frequency	698-960 MHz 1427-2690 MHz
	3300-5000 MHz 5150-5925 MHz
	1575.42 MHz 1602 MHz
Antenna element peak gain	2.3 dBi@698-960 MHz
	5.1 dBi@1427-2690 MHz
	2.6 dBi @3300-5000 MHz
	2.7 dBi @5150-5925 MHz
	28dB @ 2.7 V @1575.42 MHz
	28dB @ 2.7 V @1602 MHz
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

Combination antenna

Screw mount

ME A-698-3800-SM

Low Profile 5G LTE Antenna

Part #: 100-00132-01

- ✓ Low profile antenna
- ✓ Covers large frequencies 698-3800 MHz
- ✓ ROHS Compliant
- ✓ High gain for the antenna size
- ✓ PC + ABC housing
- ✓ Exceptional performance over the main 4G/5G bands



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Peak gain	5.5 dBi
Radiation pattern	-10 dBi

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	59 x 71mm

ME A-SW-700-3800

2G/3G/4G/ISM/WIFI GNSS Antenna

Part #: 189-00046-01

- ✓ 2G/3G/4G/ISM/Wi-Fi & GNSS frequency bands
- ✓ N Type connector & seal ring
- ✓ IP68 rated / UV protected
- ✓ Rugged industrial design
- ✓ Ground plane Independent



Key electrical specifications:

Parameter	Specification
Frequency	698-3800 MHz
Antenna element peak gain	4.0 dB
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount/ N Type connector
Dimensions	Ø 41 x 84 mm

ME A-900-L-SM

868/915 MHz ISM/LTE - Screw Mount

Part #: 100-00197-01

- ✓ 2 in 1 antenna: Cellular/LTE & ISM bands
- ✓ Ultra-Wide band antenna
- ✓ High performance
- ✓ Easy mounting: Screw Mount
- ✓ Low Profile: 80 x 76 x 13 mm
- ✓ Ground Plane Independent
- ✓ IP67
- ✓ Customizable Cable and Connector



Key electrical specifications:

Parameter	Specification
Frequency	698-960MHz 1710-2170MHz 2500-2700MHz 868MHz 915MHz
Peak Gain	0.7 dBi@698-960MHz 2.7dBi@1710-2170MHz 4.3 dBi@2500-270MHz 1.2 dBi@ 868MHz 1.7 dBi@91MHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 x 74 x 25.6 mm

Combination antenna

Screw mount



MEA-900-W2-SM

2.4/5.0 GHz & 868/915 MHz ISM - Screw Mount

Part #: 100-00194-01

- ✓ 2.4/5.0 GHz ISM
- ✓ Screw Mount
- ✓ Anti-Rotation Mechanism
- ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector
- ✓ IP67, IK09, IP69K
- ✓ Dimensions Ø 80 × 76 × 13 mm



Key electrical specifications:

Parameter	Specification
Frequency	868 MHz 915 MHz 2.4 GHz 5.0 GHz
Peak Gain	-0.6 dBi@ 868 MHz -0.2 dBi@915 MHz 4.5 dBi@ 2.4 GHz 3.9 dBi@5.0 GHz
Radiation pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount / SMA-Male
Dimensions	80 × 76 × 13 mm



COBRA-LTE700

LTE MIMO & Active GPS High-Performance Transportation Antenna

Part #: 100-00036-01

- ✓ Robust arrow shape housing for easy roof-top alignment
- ✓ MIMO technology
- ✓ One connector for each application; LTE 1, LTE 2 and GPS
- ✓ No ground plane requirements
- ✓ Single-hole mounting with screws on top for easy installation
- ✓ Use of only one multifunction solution



Key electrical specifications:

Parameter	Specification
Frequency	690 - 960 MHz 1700 - 2200 MHz 1575.42 MHz
Antenna element peak gain	4 dBi (typical)
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm



MAXWAVE

MAXWAVE™ 4x4 MIMO TRAIN ANTENNA

Part #: 100-00074-01

- ✓ 4 antenna elements operating simultaneously from 698 MHz to 6000 MHz
- ✓ Optional active GPS/GLONASS antenna with integrated surge arrester
- ✓ DC grounded antenna elements for protection against lightning and high voltage power supply lines
- ✓ Versatile Design: Maintains performance when mounted on non-metallic surfaces
- ✓ Railway standard compliant to EN50155 and fire retardant according to EN 45545:2013



Key electrical specifications:

Parameter	Specification
Frequency	4 × 698 – 6000 MHz
Pattern	Omnidirectional
Polarization	Linear

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	N/A
Dimensions	166 x 200 x 88 mm

Combination antenna

Screw mount

MEA-2500-LTE-MIMO

CELLULAR/LTE MIMO Screw Mount

Part #: 100-00211-01

- ✔ Wide-band antenna
- ✔ Easy mounting: Screw Mount
- ✔ Anti-rotation mounting
- ✔ High Performance
- ✔ Customizable Cable and Connector
- ✔ Dimensions: Ø 60 x 69 mm
- ✔ IP67, IP69, IK09
- ✔ Heavy duty antenna.



Key electrical specifications:

Parameter	Specification
Cable1	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Antenna element peak	-0.8 dBi 3.6 dBi 4.1 dB
Cable2	Frequency 698-960 MHz 1710-2170 MHz
	2500-2700 MHz
Antenna element peak	-0.6 dBi 2.8 dBi 3.0 dBi
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw mount / SMA-Male
Dimensions	Ø 60 x 69 mm

MEA-2410-ISM

2.4/5.0 GHz ISM Screw Mount Antenna

Part #: 100-00196-01

- ✔ Screw Mount
- ✔ Anti-Rotation Mechanism
- ✔ Ground Plane Independent
- ✔ Customizable Cable and Connector
- ✔ IP67
- ✔ IK09
- ✔ IP69K



Key electrical specifications:

Parameter	Specification
Frequency	2410-2490 MHz 4920-5925 MHz
Peak Gain	2.6 dBi 4.4 dBi
Radiation Pattern	Omni-directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Screw Mount/ SMA connector
Dimensions	Ø 77.3 x 65.5 mm

Combination antenna Magnetic Mount

M9706CWT

L1/L2 GPS GLONASS Active Multi-Frequency Antenna – External

Part #: 100-00090-01

- Low profile design
- Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, and GLONASS L3OC
- Rugged IP67 rating
- Small form factor
- GIS, RTK and other high accuracy GNSS applications
- Low power consumption
- Minimal phase center variation over azimuth and elevation
- Negligible group delay variation
- Automotive grade housing

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Realized gain	2.6 dB 3.3 dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, SMB or MCX (customer's choice)
Dimensions	75mm x 70mm x 23 mm



M9708CWT

L1/L2/L5 GPS GLONASS Active Multi-Frequency Antenna – External

Part #: 108-00060-02

- Low profile design
- Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, and GLONASS L3OC
- Rugged IP67 rating
- Small form factor
- GIS, RTK and other high accuracy GNSS applications
- Low power consumption
- Minimal phase center variation over azimuth and elevation
- Negligible group delay variation
- Automotive grade housing

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1) 1164-1189 MHz (L5, E5A)
Realized gain	2.6 dB 3.3 dB -2dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith Max 3 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, SMB or MCX connector
Dimensions	75mm x 70mm x 23 mm



M1593CWT

L1/L2/L5 GPS GLONASS + L-Band- Active Multi-Frequency Antenna – External

Part #: 100-00191-01

- Small form factor
- GIS, RTK and other high accuracy GNSS applications
- Low Power Consumption
- Minimal phase center variation over azimuth and elevation
- Negligible group delay variation
- Automotive grade housing

Key electrical specifications:

Parameter	Specification
Frequency	197-1249 MHz 1559-1606 MHz 1539 - 1559 MHz
Realized gain	2.6 dB @1197-1249 MHz 3.3 dB @1559-1606 MHz 1.5 dB @1539 - 1559 MHz
Polarization	RHCP

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Magnetic base, fixed installation option/ SMA, SMB, MCX
Dimensions	75mm x 70mm x 23 mm



Combination antenna Magnetic Mount



M1559CWT

L1 GPS GLONASS Active Multi-Frequency Antenna – External

Part #: 100-00118-01

- ✔ Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou
- ✔ Low profile design
- ✔ Rugged IP67 rating
- ✔ Small form factor
- ✔ Low power consumption
- ✔ Minimal phase center variation over azimuth and elevation
- ✔ Negligible group delay variation
- ✔ Automotive grade



Key electrical specifications:

Parameter	Specification
Frequency	1559-1610 MHz (L1, E1, B1, B1-2, G1)
Realized gain	3.3 dB
Axial Ratio	Max 2.7 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA, SMB, MCX (customer choice)
Dimensions	75mm x 70mm x 23 mm



MEA-5800-MM

5GNR Magnetic Mount Antenna

Part #: 100-00200-01

- ✔ 5GNR Frequency range (617-960 MHz, 1427-2690 MHz, 3300-5000 MHz, 5150-5925 MHz)
- ✔ Easy mounting: Magnetic Mount
- ✔ High Performance
- ✔ Customizable Cable and Connector
- ✔ Low profile: Ø 31 x 109 mm



Key electrical specifications:

Parameter	Specification
Frequency	617-960MHz 1427-2690MHz 3300-5000MHz 5150-5925MHz
Antenna element peak gain	1.0 dBi @ 617-960 MHz 2.9 dBi @ 1427-2690 MHz 2.5 dBi @ 3300-5000 MHz 0.4 dBi @ 5150-5925 MHz
Radiation pattern	Omni-Directional

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	SMA-Male
Dimensions	105.1 x 30.1 x 6.7 mm

Combination antenna Adhesive Mount

MEA-LG-AM

CELLULAR/LTE and GPS/GLONASS Adhesive Mount

Part #: 100-00193-01

- ✓ Cable 1: CELLULAR/LTE - 698-960 MHz; 1710-2170 MHz; 2500-2700 MHz / Cable 2: GPS/GLONASS/QZSS/Galileo - 1575-1606 MHz
- ✓ Adhesive Mount ✓ Ground Plane Independent ✓ Customizable Cable and Connector Dimensions ✓ Low profile: 83 x 35 x 13.3 mm
- ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Cable1	Antenna element peak	-2.7 dB	-3.0 dB -5.9 dB
	Polarization	Linear	
	VSWR	1.8:1	1.3:1 2.0:1
Cable2	Frequency	1575.42 MHz	1598-1606 MHz
	Active gain	28 dB @ 2.7 V	
	Polarization	RHCP	
	VSWR	≤ 1.4:1	

Key mechanical specifications:

Parameter	Specification
Connector	MMCX(MALE)
Cable Type	RG178
Dimensions	82 x 80 x 6.6 mm



MEA-LGG-AM

Cellular/LTE and GPS/GLONASS Antenna – Adhesive Mount

Part #: 100-00163-01

- ✓ 2in 1 antenna (CELLULAR/LTE,GPS/GLONASS/QZSS/Galileo) ✓ Adhesive Mount ✓ High Performance ✓ Ground Plane Independent
- ✓ Customizable Cable and Connector ✓ Dimensions 150.5 x 42 x 15.3 mm ✓ IP67, IP69

Key electrical specifications:

Parameter	Specification		
Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Cable1	Antenna element peak	3.4 dBi	3.5 dBi 3.9 dBi
	Efficiency	76%	69% 76%
	VSWR	1.7:1	1.4:1 1.5:1
Cable2	Frequency	1575.42 MHz	1598-1606 MHz
	Active gain	28 dB @ 2.7 V	
	Polarization	RHCP	
	VSWR	≤ 1.4:1	

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Connector Mount / SMA-Male
Dimensions	150.5 x 42 x 15.3 mm



Combination antenna Adhesive Mount



MEA-3-GGL

GPS/GLONASS/LTE Antenna & 2G/3G LTE SOLUTION

Part #: 189-00053-01

- ✔ Covers GNSS & LTE Bands
- ✔ 2 in 1 Low Profile Antenna
- ✔ Rugged IP67
- ✔ Customizable Cables and Connectors
- ✔ Small Size
- ✔ Easy Magnet Mounting
- ✔ Quality Textured Covert Design

Key electrical specifications:

Parameter	Specification			
GNSS	Frequency	1575.42 MHz	1602 MHz	
	Polarization	Linear		
	Polarization	3.0 dBi Typ.	3.5 dBi Typ	
	VSWR	≤ 2.0:1		
LNA	Frequency	1575.42 MHz	1602 MHz	
	Power Consumption	9 Typ. mA @3.3V		
	Antenna Gain	28 dB Typ. / 25 dB Min		
	VSWR	≤ 2.0:1		
LTE	Frequency	698-960 MHz	1710-2170 MHz	
		2500-2700 MHz		
	Antenna element peak	1.5 dBi	0.5 dBi	0.5 dBi
	Efficiency	25%	30%	30%
	VSWR	≤ 5.5	≤ 4.0	≤ 4.0

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Foam adhesive / SMA, FAKRA or custom
Dimensions	(L) 55 x (W) 55 x (H) 20 mm



Combination antenna Embedded

M9706CWT-UFL

L1/L2 GPS GLONASS Active Multi-Frequency Antenna – Embedded

Part #: 108-00060-02

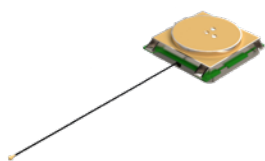
- ✔ Concurrent GNSS reception on L1: GPS, GLONASS, Galileo, Beidou and ✔ L2: GPS L2C, Galileo E5B, GLONASS L30C, and L2 OF
- ✔ Low profile design ✔ Conformal materials ✔ Full active design with superb filtering ✔ Small form factor ✔ GIS, RTK and other high accuracy GNSS applications ✔ Low power consumption ✔ Minimal phase center variation over azimuth and elevation ✔ Negligible group delay variation

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1)
Realized gain	2.6 dB 3.3 dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	65mm x 65mm x 17 mm



M9708CWT-UFL

L1/L2/L5 GPS GLONASS Active Multi-Frequency Antenna – Embedded

Part #: 108-00060-02

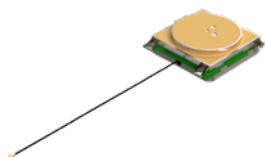
- ✔ Low profile design ✔ Concurrent GNSS reception on L1: GPS GLONASS, Galileo, Beidou and L2: GPS L2C, Galileo E5B, and GLONASS L30C ✔ Small form factor ✔ GIS, RTK and other high accuracy GNSS Applications ✔ Low power consumption ✔ Minimal phase center variation over azimuth and elevation ✔ Negligible group delay variation ✔ Custom tuned to applications enclosure

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz (L2, B2, G2, G3, E5B) 1559-1606 MHz (L1, E1, B1, B1-2, G1) 1164-1189 MHz (L5, E5A)
Realized gain	2.6 dB 3.3 dB -2dB
Axial Ratio	Max 1.5 dB at the Zenith Max 2.7 dB at the Zenith Max 3 dB at the Zenith

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded
Dimensions	65mm x 65mm x 17 mm



M1593CWT-UFL

L1/L2/L5 GPS GLONASS + L-Band- Active Multi-Frequency Antenna – Embedded

Part #: 108-00083-01

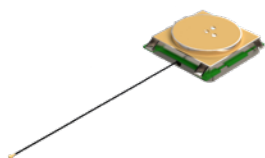
- ✔ Small form factor ✔ GIS, RTK and other high accuracy GNSS applications ✔ Low Power Consumption ✔ Minimal phase center variation over azimuth and elevation ✔ Negligible group delay variation ✔ Automotive grade housing

Key electrical specifications:

Parameter	Specification
Frequency	1197-1249 MHz 1559-1606 MHz 1539 - 1559 MHz
Realized gain	2.6 dB 3.3 dB 1.5 dB
Noise figure	≤ 2 dB

Key mechanical specifications:

Parameter	Specification
Mounting option / Connector	Embedded/ U.FL
Dimensions	65mm x 65mm x 17 mm

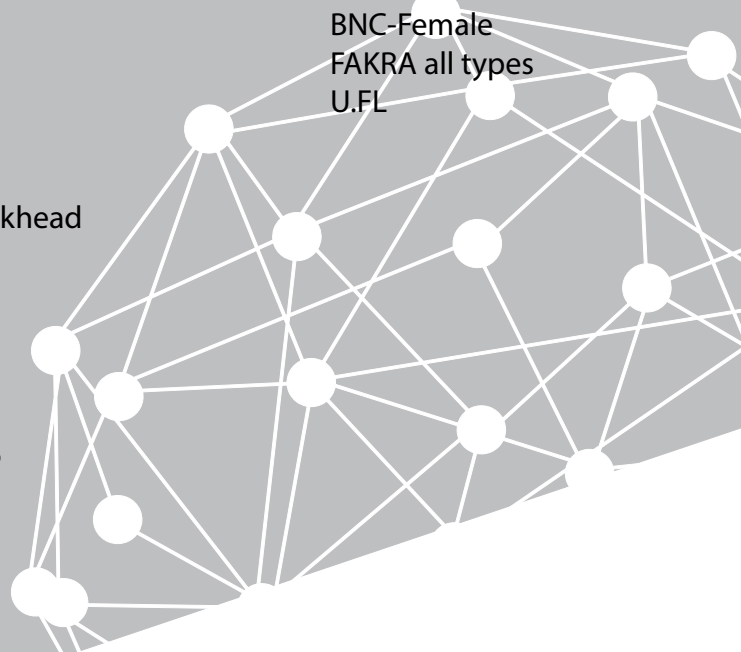


Our standard connectors

- SMA-Male
- SMA-Female
- SMA-Male Right Angle
- SMA-Female Right Angle
- SMA-Male Reverse Polarity
- SMA-Female Reverse Polarity
- SMA-Male Reverse Polarity Right angle
- SMA-Female Bulkhead
- MCX-Male
- MCX-Female
- MCX-Male Right Angle
- MCX-Female Right Angle
- MMCX

- F-Male
- F-Female
- N-Male
- N-Female
- N-Female Bulkhead
- SMB-Male
- SMB-Female
- TNC-Male
- TNC-Female
- TNC-Male RP
- TNC-Female Bulkhead

- SMC-Male
- SMC-Female
- SMC-Male Right Angle
- SMC-Female Bulkhead
- BNC-Male
- BNC-Female
- FAKRA all types
- U.FL



Cable list

- RG174
- RX174
- RG174HF
- RG174LL
- RG174TWIN
- RG178
- RG223
- RG316
- RG58
- RG6
- LL100
- LL195

- Enviroflex 316
- D
- H155
- D100
- D302
- Microcoax 0.81
- Microcoax 1.13
- Microcoax 1.32
- Microcoax 1.37

SMA Male



SMA Male with LMR 100



U.FL connector



U.FL with Microcoax 1.13



TNC connector



TNC straight with LMR 100



MCX Right angle connector



MCX Right angle with RG 174



Accessories






Maxtena offers a high variety of antenna accessories including mounting brackets, RF cables and connectors. Custom solutions are available upon request.


Applications

Magnet mounting antenna 

 Screw mounting antenna

 Adhesive mounting antenna

Wall mounting antenna 

 Pole mounting antenna

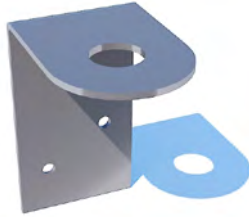


MMB-01-11-P

Wall Mount Bracket

Part #: 311-00052-01

- ✔ Easy to mount
- ✔ Wall mount Antenna
- ✔ Very light: 30g
- ✔ ROHS Compliant
- ✔ Screws included
- ✔ Robust design



Key mechanical specifications:

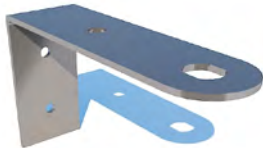
Parameter	Specification
Material	Aluminum
M4 Screw Material	Zn - Fe
Weight	30g
Operating environment	-40 °C to +85 °C

MMB-01-12-P

Wall Mount Bracket

Part #: 311-00052-01

- ✔ Easy to mount
- ✔ Wall mount Antenna
- ✔ Very light: 30g
- ✔ ROHS Compliant
- ✔ Screws included
- ✔ Robust design



Key mechanical specifications:

Parameter	Specification
Material	Aluminum
M4 Screw Material	Zn - Fe
Weight	30g
Operating environment	-40 °C to +85 °C

MMB-04-17-SM

Magnetic/Adhesive Mount Bracket With SMA (Female) Connector

Part #: 105-00008-01

- ✔ Screw mount bracket with cable and SMA F connector
- ✔ Gasket suitable for all types of flat surface
- ✔ Suitable for various connector types
- ✔ Equipped with RG174 or LL100 cable
- ✔ Possible frequency transfer up to 6 GHz
- ✔ Robust construction
- ✔ Mounting hole 19 mm/square 15x15 mm



Key mechanical specifications:

Parameter	Specification
Material	ASA - UV stable
Dimensions	Ø 60 x 25 mm
Weight	103g
Cable type	RG174 or LL100 cable
Operating environment	-40 °C to +85 °C

MMB-04-18-SM

Screw mount bracket with cable and SMA F connector

Part #: 105-00012-01

- ✔ Screw mount bracket with cable and SMA F connector
- ✔ Gasket suitable for all types of flat surface
- ✔ Suitable for various connector types
- ✔ Equipped with D302 cable
- ✔ High efficiency
- ✔ Possible frequency transfer up to 6 GHz
- ✔ Robust construction
- ✔ Mounting hole 19 mm/square 15x15 mm



Key mechanical specifications:

Parameter	Specification
Material	ASA - UV stable
Dimensions	Ø 60 x 25 mm
Weight	115g
Cable type	D302 cable
Operating environment	-40 °C to +85 °C

MMB-04-19-MM

Magnetic/Adhesive Mount Bracket With SMA (Female) Connector

Part #: 105-00009-01

- ✔ Screw mount bracket with cable and SMA F connector
- ✔ Gasket suitable for all types of flat surface
- ✔ Suitable for various connector types
- ✔ Equipped with D302 cable
- ✔ High efficiency
- ✔ Possible frequency transfer up to 6 GHz
- ✔ Robust construction
- ✔ Mounting hole 19 mm/square 15x15 mm



Key mechanical specifications:

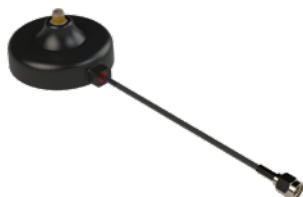
Parameter	Specification
Dimensions	Ø 59 x 24 mm
Cable type	RG174 or LL100 cable

MMB-04-20-AM

Magnetic/Adhesive Mount Bracket with SMA (Female) Connector

Part #: 105-00013-01

- ✔ Gasket suitable for all types of flat surface
- ✔ Suitable for various connector mount antenna
- ✔ Equipped with D302 cable
- ✔ Possible frequency transfer up to 6 GHz
- ✔ Robust construction
- ✔ Strong magnet for metal surface
- ✔ Mounting hole 19 mm/square 15x15 mm



Key mechanical specifications:

Parameter	Specification
Dimensions	Ø 54 x 24 mm
Cable type	D302 cable



MMB-04-21-AM

Magnetic/Adhesive Mount Bracket with SMA (Female) Connector

Part #: 105-00010-01

- ✔ Suitable for connector mount antenna
- ✔ Equipped with RG174 or LL100 cable
- ✔ Possible frequency transfer up to 6 GHz
- ✔ Robust construction
- ✔ Strong magnet for metal surface
- ✔ Mounting hole 19 mm / square 15x15 mm
- ✔ Double side adhesive sticker included



Key mechanical specifications:

Parameter	Specification
Dimensions	Ø 54 x 24 mm
Cable type	RG174 or LL100



MB-04-23-AM

Magnetic/Adhesive Mount Bracket with SMA (Female) Connector

Part #: 105-00014-01

- ✔ Suitable for magnetic/Adhesive surface
- ✔ Suitable for connector mount antenna
- ✔ Equipped with D302 cable
- ✔ Possible frequency transfer up to 6 GHz
- ✔ Robust construction
- ✔ Strong magnet for metal surface
- ✔ Double side adhesive sticker included
- ✔ Mounting hole 19 mm/square 15x15 mm



Key mechanical specifications:

Parameter	Specification
Dimensions	Ø 54 x 24 mm
Cable type	RG174 or LL100

Maxtena's Three-Phase Process for Embedded Antennas

Maxtena is the leader in the design and manufacturing of high performance, light weight antennas for use in a variety of portable wireless applications including satellite phones, military radios, handheld navigation, GPS tracking, recreational devices and laptop computers. Maxtena produces both external antennas that come in a range of plastic housings as well as embedded antennas. The embedded antennas are custom built to sit perfectly in the application's own housing.



Phase 1

Upon agreement between Maxtena and the customer that an embedded antenna is the best solution a two-way Non-Disclosure Agreement is executed so both parties can share design information. After the NDA is executed, a Maxtena Program Manager will schedule a call between Maxtena's engineering team and the Customer.

Prior to the meeting the customer should provide CAD data in a suitable exchange format (such as STEP) for review by the Maxtena engineering team.

The purpose of the meeting is for Maxtena to understand the customer's requirements and to provide the customer with design guidance for their housing to ensure the final design will achieve the best overall antenna performance. A wide range of housing design elements can and will affect the performance of an embedded antenna and addressing these items early in the design phase can reduce the overall time required for development. Antenna placement, PCB spacing, material thickness, resin selection and resin additives are just some of the design elements where Maxtena will provide guidance.

At the conclusion of the meeting Maxtena will develop and submit a proposal detailing the breakdown of tasks, the schedule, Maxtena and customer deliverables, required engineering resources, and the total project cost. Upon review and acceptance of this proposal by the customer, and submission of a Non-Recurring Engineering (NRE) Purchase Order, Maxtena will assign resources to undertake the project.

Phase 2

After the customer has incorporated Maxtena's design guidelines into the mechanical design, a new CAD database is sent to Maxtena. Maxtena's engineers will import this design into simulation software and conduct an analysis of the design to identify the expected antenna performance and provide feedback to the customer on changes they can make to the housing to ensure optimal antenna performance.

Once the customer incorporates any modifications into its design, Maxtena orders a small quantity (usually 2 to 4) of machined prototypes using the latest design. At the same time, Maxtena manufactures an equal number of antennas to be used with the new housing prototypes. The prototype assemblies are then tested by Maxtena's engineers using Maxtena's in-house near field anechoic chamber to verify the design achieves the expected results. Typically, the chamber testing confirms the results of the simulation and the customer can have tooling made for the fabrication of production parts. In rare cases, minor changes are required to the housing design before the tooling can be ordered.

Once initial chamber testing is completed Maxtena will provide a written report documenting the results. Maxtena will also schedule the manufacture of a small number of antennas, usually 20 to 30, to be used for testing when the final housings are available.

Phase 3

When the first parts are made from the tooling, the customer sends a small number of parts to Maxtena (typically 20 to 30) for final testing in the anechoic chamber. Maxtena's engineering team will test all of the units to get a broader sample and to confirm the performance will be repeatedly achieved across a production lot. Once the testing is complete Maxtena will provide the customer a final written report documenting the test results.

Maxtena will then begin production of the antennas in accordance with the customer's orders and/or forecast.

The Business Result

As a result of Maxtena's embedded antenna design process, companies are rapidly deploying products with consistent and reliable performance. This process involves substantial communication and collaboration between Maxtena and the customer and serves to cement a strong working relationship on both a business and technical basis. This interchange also serves to educate the customer on key characteristics that affect antenna performance and avoid making future design changes. Maxtena's Program Manager continues to be the customer's advocate within Maxtena to ensure a smooth transition to manufacturing and to respond to any issues that may arise.

Quality

We work hard to provide customers with the very best products. We strive to provide best-in-class quality and reliability in each and every product we manufacture. We have developed a systematic approach to assure the quality of our products from development to prototyping to product qualification to manufacturing. We have selected strategic partners who meet the ISO management system standards to ensure we deliver the best quality products to our customers. Every product manufactured is individually tested on the production line using proprietary software developed by Maxtena for quality assurance.

Shipping

We sell our products globally and use strategically picked distribution partners to shorten lead times, as well as to provide excellent on-time customer support. Shipping of sample products Sample quantities for all of Maxtena's products are available for purchase and will ship from our headquarters in Rockville, Maryland, USA or from an authorized distributor. For a complete list of Maxtena authorized distributors please visit: <http://www.maxtena.com/distributors>.

Lead time

The lead time for all Maxtena products is 8-10 weeks ARO, unless the product is in-stock and available o-the-shelf, in which case product(s) will ship immediately. Customers placing purchase orders (PO) will be quoted a lead time based on product availability before the PO is accepted and processed. Any custom tuned or custom-built antenna requires the sale of service ahead of the sale of antennas, such as feasibility studies, prototyping, and chamber measurement.



To serve our customers internationally, Maxtena has established trusted distribution partners who are able to assist with product recommendations and purchases..

Global Distributors

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Farnell – Electronic Component Distributor

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Website: www.braemacca.com



Mouser Electronics

Selling Territory: Global
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Website: <http://www.m2mconnectivity.com.au>



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Mouser Electronics

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Richardson RFPD

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40W267 Keslinger Road LaFox, IL 60147 – USA



Farnell – Electronic Component Distributor

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Website: www.farnell.com



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A.N. Security & Technology Consultation Ltd.

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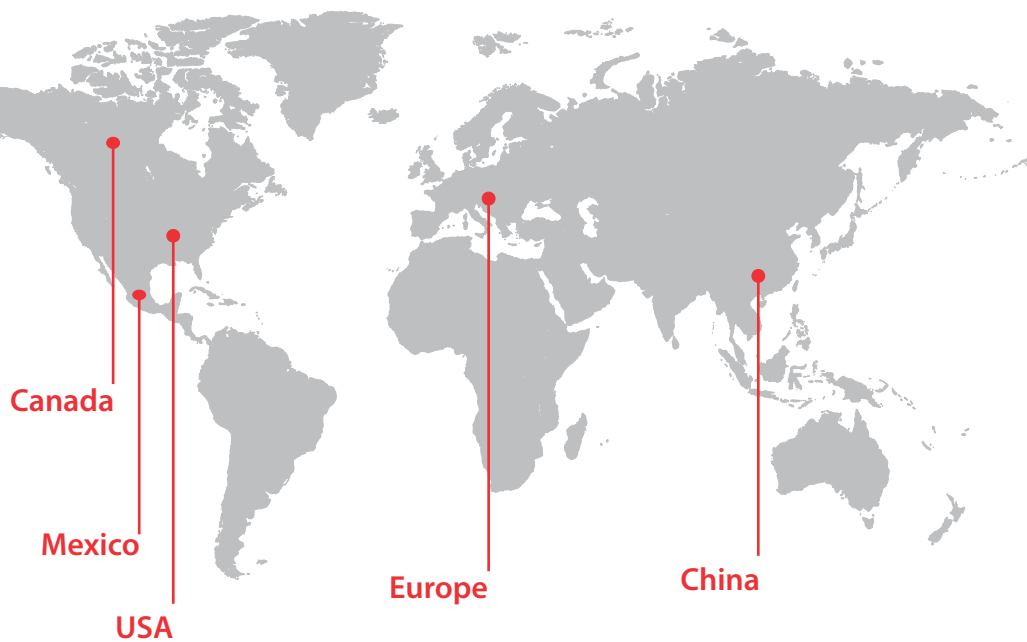
7 offices
worldwide



100+
Employees



15
years in Business



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