



The Global Cellular IoT Antenna Market

1st Edition

The Global Cellular IoT Antenna Market analyses the latest trends and developments on the IoT antenna market covering 26 antenna vendors. This strategic research report from Berg Insight provides you with 60 pages of unique business intelligence including 5-year industry forecasts and expert commentary on which to base your business decisions.

Cellular IoT antenna shipments reached 598 million units in 2023

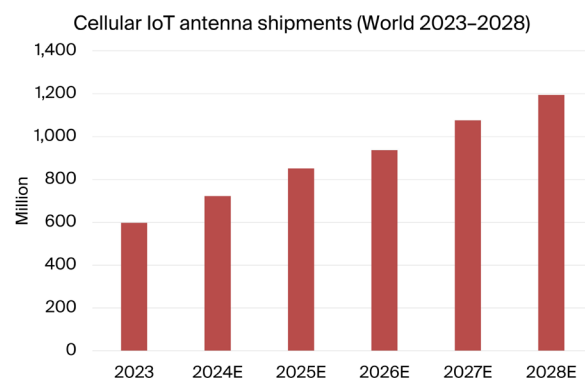
An antenna is a type of component required by any wireless device to convert electric current into electromagnetic waves and vice versa. Even though an antenna is a conceptually basic passive component, there are many challenges associated with the implementation of antennas. Major smartphone OEMs have teams of hundreds of engineers that design custom antennas for their devices. In contrast, cellular IoT device makers do not have the resources or scale needed to design antennas in-house and rely on specialised antenna vendors that provide off-the-shelf antennas, as well as custom antenna design services.

Antenna selection and implementation are important steps in the design of any cellular IoT device, as the antenna largely dictates how well a device performs wirelessly. There are a range of antenna types to choose from when deciding on what kind of antenna to use. The most important factors to consider are size, cost and performance. Cellular IoT antennas can be broadly divided into internal and external antennas. Internal antennas are embedded within the component enclosure of a device and either integrated directly on the PCB or connected to the PCB via a cable, while external antennas are typically designed to be plug-and-play solutions, mounted externally on a device or other location.

Berg Insight estimates that annual shipments of cellular IoT antennas, including internal and external antennas, amounted to 598 million units in 2023. Until 2028, cellular IoT antenna shipments are forecasted to grow at a compound annual growth rate (CAGR) of 14.9 percent to reach 1.2 billion at the end of the period.

The cellular IoT antenna market is served by a multitude of players of different sizes, with diverse portfolio strategies and

varying degrees of specialisation when it comes to antennas. An important category is the major diversified electronic component manufacturers such as TE Connectivity, Kyocera and Amphenol. Taoglas is one of the leading pure-play IoT antenna vendors in North America and Europe. Sunnyway Technologies is the market leader in China and is active across all main segments. Other key antenna providers that are active in more than one segment are discoverIE (operating through the brands 2J Antennas and Antenna), Pulse Electronics and Quectel. Antenna providers that primarily focus on the internal antenna segment include Ignion, Abracon, Ezurio, Unictron and Walsin Technology Corporation. The external antenna market is fragmented, with few vendors having substantial presence in more than one region. Berg Insight ranks Panorama Antennas, Parsec Technologies and PCTEL (acquired by Amphenol in December 2023) as the market leaders. Other major external antenna providers include Amphenol Procom, Poynting Antennas, Huber+Suhner and Airgain.



Highlights from the report

Insights from 20 executive interviews with market-leading companies.

Summary of the M2M/IoT hardware value chain.

In-depth analysis of market trends and key developments.

Profiles of 26 cellular IoT antenna vendors.

Overview of certifications required for cellular devices.

Market forecasts covering seven different internal and external antenna types lasting until 2028.

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Glossary

This report answers the following questions

- Which are the leading providers of cellular IoT antennas?
- What are the key trends in the internal, external and automotive antenna segments?
- Which new antenna concepts are emerging on the market?
- Which are the main applications for external antennas?
- What is the share of external and internal antennas of total shipments?
- What are the largest end markets for cellular IoT devices?
- How will the cellular IoT antenna market evolve over the next five years?



About Berg Insight's IoT market research

Our market reports offer comprehensive information and analysis on key IoT technologies and markets, addressing important concerns including total addressable market, market penetration, market shares, industry landscape, regulatory environment, market trends and forecasts. Our research portfolio today comprises more than 70 items, where each market report focuses on a specific vertical application area or cover horizontal themes. All market reports come with complementary data sets in Excel format that can be easily analysed and converted into tables and charts. We offer a range of different license options together with bundled packages and subscriptions to suit your specific needs.

HORIZONTAL THEMES

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The Global Cellular IoT Antenna Market is the foremost source of information about the cellular IoT antenna market worldwide. Whether you are an antenna vendor, chipset or module provider, device maker, utility, vehicle manufacturer, telecom operator, investor, consultant, or government agency, you will gain valuable insights from our in-depth research.

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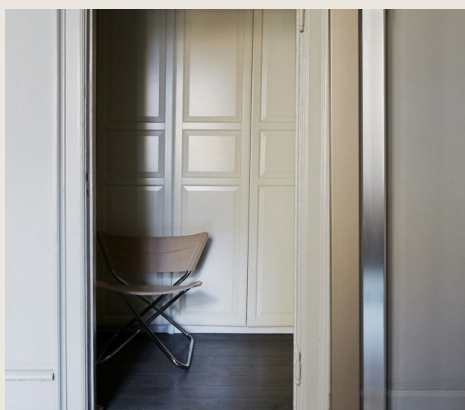


Fredrik is an experienced analyst who specialises in the IoT connectivity and software markets. He contributes primarily to the horizontal research programmes, for which he produces most of the content and manages all the underlying data sets. Fredrik's key areas of expertise are IoT connectivity services, IoT platforms and software as well as IoT/M2M applications in the industrial markets. In addition to published research, he has worked on projects for a range of clients across the IoT ecosystem. Fredrik joined Berg Insight in 2016 and holds a Master's degree in Industrial Engineering and Management from Chalmers University of Technology.

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