

## **WiGig - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

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### **Report description:**

The WiGig Market size is estimated at USD 35.48 million in 2025, and is expected to reach USD 121.73 million by 2030, at a CAGR of 27.96% during the forecast period (2025-2030).

### **Key Highlights**

- Technological advancement is the primary factor contributing to the market's growth. In addition, the rising need for the high-frequency spectrum, which contributes to high-speed data transfer, is another factor influencing the market positively. WiGig is also termed the "IEEE 802.11ad standard." The factors that propel the wireless gigabit market's growth include increased bandwidth demand, smartphone saturation, and the use of several devices that eventually contribute to the overall industry development.
- Public Wi-Fi enables achieving various smart city goals, which include bridging the digital divide, enabling the Internet of Things (IoT) based municipality services, and providing amenities for students, residents, visitors, and tourists. Apart from this, WiGig devices are utilized in different businesses to enable employees to complete work from many devices without the hassle of a wired connection. They are also used for efficient in-office networking, running bandwidth-heavy applications seamlessly, transferring large files and audio, and projecting graphics to a large screen in a conference room with very low latency.
- Increasing technological advancements in the communications industry are also driving the market. Regarding IoT services, WiGig enables high-speed local area connections between IoT devices, allowing them to share data quickly and efficiently. This can be especially beneficial for applications such as smart homes, where multiple IoT devices need to communicate with each other in real-time. According to Cisco's Annual Internet Report, by 2023, there will be approximately 30 billion network-connected devices in addition to influences, growing from 18.4 billion in 2018.
- The rising adoption of high-resolution videos is driving the WiGig market. With the growing popularity of high-resolution videos, including 4K and 8K videos, there is an increasing demand for high-speed wireless connectivity to enable streaming these videos

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without buffering or lagging. In addition, the global development push toward digitization and the implementation of 5G networks has also contributed to the growth of WiGig. According to 5G Americas, as of 2023, fifth-generation (5G) subscriptions are approximately 1.9 billion globally. This number is forecast to increase to 2.8 billion in 2024 and 5.9 billion by 2027.

- However, the shorter operating range of WiGig products (typically around 10 meters or less) hampers the market's growth. The short range can restrict WiGig's applications, particularly when users require mobility or coverage over large areas.

- The COVID-19 pandemic created opportunities for WiGig technology to support remote work and digital collaboration. However, it has also introduced competition from existing wireless technologies like Wi-Fi. Organizations in various industries are accelerating their digital transformation efforts to adopt remote operations and meet changing consumer demands after the pandemic.

## WiGig Market Trends

### Display Devices Segment is Expected to Hold Significant Market Share

- Display devices offer various solutions to meet the growing demand for wireless connectivity and seamless integration of displays in various applications, such as head-mounted displays (HMD)(AR), smartphones, VR headsets, and devices with integrated displays, such as PCs and Laptops.

- The proliferation of WiGig-enabled smartphones drives demand for display devices that support wireless connectivity, enabling users to leverage the full potential of their mobile devices for productivity, entertainment, gaming, and collaborative applications. According to GSMA, as of 2023, North America has the maximum smartphone adoption rate, with 84% of total mobile connections. North America is anticipated to see its smartphone adoption rate grow to 89% by 2030, with regions like Eurasia and Asia-Pacific looking forward to significant growth.

- WiGig technology functions at 60 GHz and permits the wireless transfer of information in audio and video format at a speed of up to 5 gigabits per second, which is ten times the present maximum wireless transfer capacity, and that too at one-tenth of the cost. Typically, it supports data transfer within a range of 10 meters. The market is gaining traction due to the ease of operation and high speeds, particularly in the gaming sector.

- WiGig technology is also used to broadcast video signal transmission systems in sports stadiums and mm-wave video signal broadcast systems. The technology could also be used to beam full HD-quality video in real time. It can also be used by notebooks and other computers to wirelessly connect, along with all the development needed for a docking station, including a secondary display and storage computer.

- During the forecast period, short-range applications in the market are expected to be attractive. Screen sharing and virtual Reality (VR) headsets are instances where WiGig is being implemented widely. Companies such as Peraso, Nitero, Qualcomm, Blu Wireless, Tensorcom, and Intel specialize in WiGig-supporting semiconductors. Dell is integrating WiGig in carefully chosen laptops and wireless docking stations. It can wirelessly power a high-resolution virtual reality headset in the same room. The WiGig technology can transfer data at fast enough rates to feed VR imagery from a PC to a VR headset display.

### North America is Expected to Hold Significant Market Share

- The high internet penetration and large smartphone users in the region driven by the United States and Canada are expected to drive the demand for high-speed Wi-Fi in gigabytes using WiGig. North America is quickly migrating toward multi-gigabit, residential internet access, primarily using fiber. The economic feasibility of extracting more bandwidth from existing networks using DOCSIS 3.1 is trending with the real opportunity of wireless and speed, by which the demand for WiGig is increasing in this region.

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- In July 2023, the FCC adopted new regulations to encourage the development of creative devices that do not require a license. These rules apply to unlicensed radar and other sensor devices that use the 60 GHz band (between 57-71 GHz). The goal is to give device makers more freedom in their designs and how they operate while also enabling new applications like technology to detect children left in hot cars. Importantly, these rules ensure that this band can still be shared with other unlicensed technologies, like WiGig, which supports VR and XR applications.
- The video game industry in Canada is booming. The Entertainment Software Association of Canada reported that 63% of Canadians, over 24 million people, are gamers. This trend is particularly strong among younger demographics, with nearly 9 out of 10 (89%) kids and teens (aged 6-17) playing video games, compared to 61% of adults (aged 18-64). The survey did not include data for Canadians over 65. The increasing popularity of video games in the region provides opportunities for the market to grow.
- In March 2024, Miliwave Co. Ltd announced new Fixed-Wireless products using Peraso's X720 chipset. In addition, Miliwave opened an office in North America to service the growing WISP market. Utilizing the license-free 60 GHz band, Miliwave's airPATH 60 products provide solutions for applications demanding reliable, multi-gigabit data connectivity.
- Moreover, in August 2023, STORDIS, one of the pioneering providers of open networking solutions, announced a partnership with Tachyon Networks, an industry leader in 60 GHz wireless networking technology. This collaboration would enable STORDIS to distribute Tachyon Networks' innovative products across Europe and deliver substantial benefits for customers, enhancing network efficiency and flexibility and facilitating faster, easier, and more cost-effective installations.

## WiGig Industry Overview

The WiGig market is fragmented due to the presence of both global players and small and medium-sized enterprises. Some of the major players in the market are Panasonic Corporation, Qualcomm Technologies Inc., Intel Corporation, Broadcom Inc., and Peraso Technologies Inc. Players in the market are adopting strategies such as partnerships, innovations, and acquisitions to enhance their product offerings and gain sustainable competitive advantage. For instance,

- In April 2024, Panasonic System Networks R&D Lab. Co. Ltd adopted Peraso's X710 chipset for its new 60 GHz WLAN solution. Incorporating Peraso's phased array antenna technology, PSNRD's newly introduced 60 GHz WLAN solution achieves wireless high-speed, low-latency communication equivalent to wired LAN over distances of hundreds of meters. The new solution is easy to install and operate, has interference-free use of the 60 GHz band, and has narrow beam directional antenna control.
- In September 2023, Peraso, one of the prominent players in mmWave technology for 60 GHz license-free and 5G licensed networks, announced the release of the PRM2144X in the PERSPECTUS series featuring long-range, outdoor applications. Utilizing the Peraso X720 60 GHz chipset, the PRM2144X is designed for dense urban areas.

## Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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