

# Wi-Fi 6 Market to Surpass USD 59 Billion by 2032 Driven by Rising Demand for High-Speed Connectivity

*Industries such as telecommunications, smart homes, manufacturing, healthcare, and education are adopting Wi-Fi 6 to support increased device connectivity*

AUSTIN, TX, UNITED STATES, December 4, 2024 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the SNS Insider, "The [Wi-Fi 6 Market Size](#) was valued at USD 6.00 billion in 2023 and is expected to reach USD 59.01 billion by 2032, growing at a CAGR of 28.93% from 2024 to 2032."



The growing number of internet users, propelled by expanded telecommunications and increased smartphone penetration, has driven demand for advanced networking solutions such as Wi-Fi 6. In 2022, WLAN infrastructure devices dominated the market, capturing 40.8% of the total market share, as the demand for chipsets supporting next-generation routers, gateways, and other networking equipment surged. This trend is expected to continue as businesses prioritize enhanced network capabilities, including high bandwidth and seamless connectivity for optimal customer experience. The adoption of Wi-Fi 6 access points is gaining traction in enterprise settings, where high-speed internet is critical for video conferencing, cloud applications, and streaming services. Cisco Systems, for example, has launched Wi-Fi 6-enabled products, positioning itself to cater to the rising demand for robust network solutions across various industries. In 2022, the commercial segment held the largest market share at 38.0%, with demand expected to exceed 2 billion units by 2030. Corporations worldwide are increasingly reliant on advanced wireless connectivity for daily operations, driving the demand for Wi-Fi 6-enabled routers and chipsets that support high-bandwidth applications and ensure reliable connections.

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SWOT Analysis of Key Players as follows:

- Cisco Systems Inc. (US)
- Qualcomm Technologies Inc. (US)
- Broadcom Inc (US)
- Intel Corporation (US)
- Huawei technologies (China)
- NETGEAR Inc (US)
- Juniper Networks Inc (US)
- Extreme Networks Inc. (US) Ubiquiti Inc. (US)
- Fortinet Inc. (US)
- Aruba Networks (US)
- NXP Semiconductors (Netherlands)
- AT&T (US)
- D-Link Corporation (Taiwan)

## Segment Analysis

### By Offering

The hardware segment dominated the Wi-Fi 6 market in 2023 with a major market share. Rising demand for advanced routers and extenders to support high-bandwidth applications, such as HD streaming and cloud computing, is propelling the hardware market. Companies like Broadcom are already expanding their chipset manufacturing to support growing hardware needs globally.

### By Location Type

The indoor segment led with the highest market share in 2023, due to the increased need for reliable connectivity in homes, offices, and educational institutions. From smart homes equipped with IoT devices to office setups reliant on seamless video conferencing, Wi-Fi 6 is meeting the demand for low-latency, high-speed networks. This trend is expected to continue as more facilities adopt Wi-Fi 6 for internal communication, augmented reality, and other technology-dependent activities.

### By Vertical

The commercial segment held a major market share and led the market in 2023, with businesses seeking better connectivity solutions to support a variety of applications, including video conferencing, virtual meetings, and data-intensive processes. Retail, manufacturing, and corporate sectors are driving this demand, supported by the rising need for high-quality internet in office settings to accommodate cloud applications. As connectivity needs increase, commercial facilities are expected to continue leading the Wi-Fi 6 market.

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## KEY MARKET SEGMENTS:

By Offering

Hardware

Solutions

Services

By Location Type

Indoor

Outdoor

By Vertical

Retail and Ecommerce

Government and Public Sector

Manufacturing

Media and Entertainment

Healthcare and Life Sciences

Transportation and Logistics

Travel and Hospitality

Education

Residential

Other Verticals

By Application

Immersive Technologies

HD Video Streaming and Video Streaming

Smart Home Devices

IoT and Industry 4.0

Telemedicine

Public Wi-Fi and Dense Environments

Other Applications

Regional Analysis

The Asia Pacific region dominated in 2023 with over 35% market share, driven by rapid industrialization and the adoption of Industry 4.0 technologies. With countries like China, Japan, and South Korea at the forefront, investments in Wi-Fi 6 infrastructure are rapidly expanding. Companies such as Zunpai Communication Technology are developing Wi-Fi 6 routers with 2x2 MIMO capabilities, catering to the region's increasing demand for high-speed connectivity in public and industrial spaces.

North America is anticipated to witness a substantial growth rate during 2024-2032 driven by the rising demand for high-definition online gaming, smart transportation, and autonomous

vehicles. Tech giants and telecom companies are increasingly integrating Wi-Fi 6 to support applications that require minimal latency and maximum reliability. Wi-Fi 6 technology supports applications like cloud gaming and video streaming, enhancing connectivity experiences for end-users.

## Recent Developments

-November 2024 - Cisco introduced the Catalyst 9166D1 as their latest Wi-Fi 6E-certified AP, simplifying the provision of excellent 6 GHz Wi-Fi in all areas, even those with tall ceilings or lengthy corridors.

-November 2024 - Qualcomm Technologies, Inc. drove the smartphone revolution, connecting billions of individuals. Qualcomm Technologies is leading a new era of industrial intelligence by enabling a large network of partners, customers, and developers to make it easier to create, deploy, and expand tailored solutions for connected, AI-capable IoT devices globally.

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## Future Trends in the Wi-Fi 6 Market

The Wi-Fi 6 market's future is characterized by its increasing use in IoT and smart city projects. Wi-Fi 6 will play a crucial role in enabling connected devices and delivering speedy, dependable internet access in public areas as smart infrastructure becomes more prevalent in cities. Furthermore, the adoption of Wi-Fi 6E, which operates on the 6 GHz band, will be propelled by its enhancements for high-speed, low-latency uses. The increase in remote work and online education will also continue to drive the need for Wi-Fi 6, as families switch to routers that can handle many high-data tasks.

## Table of Content - Major Points Analysis

Chapter 1. Introduction

Chapter 2. Executive Summary

Chapter 3. Research Methodology

Chapter 4. Market Dynamics Impact Analysis

Chapter 5. Statistical Insights and Trends Reporting

Chapter 6. Competitive Landscape

Chapter 7. Wi-Fi 6 Market Segmentation, by Offering

Chapter 8. Wi-Fi 6 Market Segmentation, by Location Type

Chapter 9. Wi-Fi 6 Market Segmentation, by Vertical

Chapter 10. Wi-Fi 6 Market Segmentation, by Application

Chapter 11. Regional Analysis

Chapter 12. Company Profiles

Chapter 13. Use Cases and Best Practices

Chapter 14. Conclusion

Continued...

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