

Wi-Fi 6, Wi-Fi 6E And Wi-Fi 7 Chipset Market Size, Share & Trends Analysis Report By Chipset Type (Wi-Fi 6, Wi-Fi 6E, W-Fi 7), By Device Type, By Application, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Wi-Fi 6, Wi-Fi 6E, And Wi-Fi 7 Chipset Market Growth & Trends

The global wi-fi 6, wi-fi 6E, and wi-fi 7 chipset market size is expected to reach USD 80.8 billion by 2030, according to a new study by Grand View Research, Inc. It is expected to expand at a CAGR of 17.3% from 2022 to 2030. The growing demand for bandwidth capacity among consumers and enterprises for providing support for smart devices is one of the key factors driving the global market.

Increasing trends of e-learning techniques have expanded the deployment of next-generation wireless network infrastructure across several schools, universities, offices, and residents. In addition, accessing undisturbed content during online video streaming services has increased the need and demand for installing wi-fi 6, wi-fi 6E, and wi-fi 7 devices across the globe. Therefore, the increasing adoption of e-learning is expected to fuel the wi-fi 6, wi-fi 6E, and wi-fi 7 chipsets demand from 2022 to 2030.

With the evolution of industry 4.0., manufacturers from various industry verticals such as General Motors Company, BMW Group, Ford Motor Company, Volkswagen Group, and Toyota Group are implementing advanced technologies to transform their manufacturing facilities into smart and intelligent factories. A smart factory integrates numerous intelligent devices such as collaborative robots, IoT sensors, wireless cameras, and automated guided vehicles (AGV) to achieve self-adapting manufacturing

capabilities. Providing seamless connectivity to these devices requires next-generation infrastructure, which is expected to accelerate the adoption of wi-fi 6 and wi-fi 6E devices worldwide. Therefore, it is anticipated to fuel the demand for chipsets over the next seven years.

Wi-fi 6, wi-fi 6E, and wi-fi 7 devices support multi-user, multi-input multi-output communications (MU-MIMO). The wi-fi 6 and 6E technology operates on the 6GHz band that can handle up to 12 upstream and downstream data streams on various frequency bands, such as 5GHz, 2.4GHz, and 6GHz. The wi-fi 7 technology using its 320MHz channel provides a high-speed advantage as compared to wi-fi 6 and 6E technology. With the notable investment opportunities in the smart cities globally, the next-generation wi-fi chipset-enabled devices would play a pivotal role in catering to the growing need for integrated internet connectivity for the mass population situated in public venues such as railway stations, bus stands, and airports. Thus, it is expected to bolster global market growth from 2022 to 2030.

Initially, in the 1st and 3rd quarters of 2020, the COVID-19 outbreak affected the production and supply chains for the wi-fi chipsets globally. The primary reason for this is the lockdown implemented by the governments across key countries such as the U.K., the U.S., Germany, and China. These lockdowns have forced the companies to temporarily shut down their manufacturing facilities and initiated restrictions on international travel. However, in the latter Q3 of 2020, the governments across many countries have provided certain relaxations in the lockdown, which has helped companies significantly recover the economic losses that happened during the Covid-19 times. Thus, it is expected to increase the overall market growth in the next seven years. Moreover, the high investments in the healthcare industry to create digitally advanced network infrastructure is further expected to drive the global market.

Wi-Fi 6, Wi-Fi 6E, And Wi-Fi 7 Chipset Market Report Highlights

By device type, the WLAN infrastructure devices segment dominated the overall market with a revenue share of more than 40.0% in 2021. Increasing deployment of Wi-Fi 6 gateways and routers in commercial, residential, and industrial applications propelled the segment growth

The Wi-Fi 7 chipset type segment uses a 4K QAM modulation scheme to increase the throughput value, fuelling the market growth over the forecast period. The Wi-Fi 7 chipset features flexible channel utilization, minimizing the network's interference and enhancing connectivity

Based on volume, Asia Pacific held the largest share of over 35.0% in 2021 owing to the proliferation of smart devices across the region. Moreover, the availability of major electronic manufacturing bases in Japan, China, and South Korea is anticipated to fuel market growth

Increased spending on the deployment of digital infrastructure in the healthcare sector, rising smart city, and smart factory projects have propelled the growth of Wi-Fi chipsets in the U.S.

Several key players operating in the market across the globe are mainly focusing on acquisitions, mergers, and collaborations to strengthen their market presence and expand the overall product offerings

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