

Wi-Fi Chipset Market by IEEE Standard (802.11be, 802.11ax, 802.11ac), Band (Single & Dual Band, Triband), MIMO Configuration (SU-MIMO, MU-MIMO), End-use Application (Consumer, Smart Home, AR/VR, Networking Devices) and Vertical - Global Forecast to 2030

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Report description:

The global Wi-Fi chipset market is projected to reach USD 22.50 billion in 2025 and USD 29.86 billion by 2030, registering a CAGR of 5.8% during the forecast period. One key factor driving the Wi-Fi chipset market is the rising demand for high-speed internet connectivity across consumer, enterprise, and industrial applications. With the proliferation of smart devices, streaming services, remote work, and online gaming, there is an increasing need for reliable and faster wireless communication. Wi-Fi chipsets enable seamless data transfer, lower latency, and higher network efficiency. Moreover, the rollout of advanced standards, such as Wi-Fi 6, 6E, and 7, accelerates chipset upgrades. These trends compel OEMs and service providers to adopt next-generation Wi-Fi solutions, boosting market growth.

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"Triband segment is expected to witness the highest CAGR in the Wi-Fi chipset market during the forecast period"

The tri-band segment in the Wi-Fi chipset market is driven by the increasing need for higher bandwidth and reduced network congestion in high-density environments. Tri-band chipsets operate across 2.4 GHz, 5 GHz, and 6 GHz (with Wi-Fi 6E and 7), improving network efficiency and supporting more simultaneous device connections. This makes them ideal for smart homes, enterprise networks, and gaming applications. As data consumption and connected device adoption continue to rise, the demand for tri-band Wi-Fi chipsets is expected to surge, fuelling robust growth in this segment.

"Consumer devices end-use application segment is projected to account for the largest market share in 2030"

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The consumer devices segment is expected to capture the largest share of the Wi-Fi chipset market in 2030, due to the widespread integration of Wi-Fi technology in smartphones, laptops, tablets, smart TVs, and home automation products. Rising global demand for high-speed internet, video streaming, online gaming, and smart home ecosystems continues to drive the need for reliable wireless connectivity. As consumers increasingly adopt advanced technologies such as Wi-Fi 6 and Wi-Fi 7, chipset manufacturers are scaling production to meet evolving performance standards. The consistent growth in consumer electronics shipments ensures the segment remains the dominant contributor to overall market demand.

"China to account for largest share of Asia Pacific Wi-Fi chipset market in 2030"

The Wi-Fi chipset market in China is driven by its robust consumer electronics manufacturing ecosystem and strong domestic demand for smart devices. The country is home to leading OEMs and ODMs that integrate Wi-Fi chipsets extensively across smartphones, smart TVs, laptops, and IoT devices. Government initiatives supporting digital transformation, widespread 5G advanced networks deployment, and smart city development further accelerate adoption. Moreover, China's investment in Wi-Fi 6 and Wi-Fi 7 technologies for enterprise, industrial, and residential applications strengthens its position. The growing presence of local chipset designers and increased R&D expenditure contribute to enhanced supply chain capabilities and technological innovation. This combination of high-volume production, favorable policy environment, and expanding end users' demand positions China as the dominant contributor to the region's Wi-Fi chipset market.

Extensive primary interviews were conducted with key industry experts in the Wi-Fi chipset market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakup of primary participants for the report is shown below:

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The breakup of the primaries is as follows:

- By Company Type: Tier 1 - 20%, Tier 2 - 55%, and Tier 3 - 25%

- By Designation: C-level Executives - 50%, Directors - 25%, and Managers - 25%

- By Region: North America - 60%, Europe - 20%, Asia Pacific - 10%, and RoW - 10%

Note: RoW includes the Middle East, Africa, and South America. Other designations include product managers, sales managers, and marketing managers. The 3 tiers of the companies have been defined based on their total/segmental revenue as of 2020: Tier 1 = >USD 1,000 million, Tier 2 = USD 100 million to USD 1,000 million, and Tier 3 = <USD 100 million.

Qualcomm Technologies, Inc. (US), Broadcom (US), MediaTek (Taiwan), Intel Corporation (US), Realtek Semiconductor Corp. (Taiwan), Infineon Technologies AG (Germany), NXP Semiconductors (Netherlands), Semiconductor Components Industries, LLC (US), Renesas Electronics Corporation (Japan), and Espressif Systems (China) are some key players in the Wi-Fi chipset market. The study includes an in-depth competitive analysis of these key players in the Wi-Fi chipset market, with their company profiles, recent developments, and key market strategies.

Study Coverage:

This research report categorizes the Wi-Fi chipset market based on IEEE standard (IEEE 802.11BE (Wifi 7), IEEE 802.11AX (Wifi 6 and 6E), IEEE 802.11AC, IEEE 802.11AD, IEEE 802.11), band (single & dual band, triband), MIMO configuration (SU-MIMO, MU-MIMO), vertical (consumer electronics, enterprise, healthcare, BFSI, retail, automotive, industrial, and other verticals), end-use application (consumer devices, cameras, smart home devices, gaming devices, AR/VR devices mobile robots, drones, networking devices, MPOS (Mobile Point of Sale), in-vehicle infotainment, and other applications), and region [North America (US, Canada, Mexico), Europe (Germany France, UK, Italy, Rest of Europe), Asia Pacific (China Japan, South Korea, Rest of Asia Pacific), and RoW (Middel East & Africa, South America)]. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the Wi-Fi chipset market and forecasts the same till 2030. The report also consists of leadership mapping and analysis of all the companies included in the Wi-Fi chipset ecosystem.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants in this market by providing information on the closest approximations of the revenue numbers for the overall Wi-Fi chipset market and the subsegments. This report will help stakeholders understand the

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competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (growing number of public Wi-Fi hotspots and adoption of IoT, expanding use of Wi-Fi in enterprises and businesses, and mounting need for faster data transfer), restraints (regulations and security associated with Wi-Fi technology), opportunities (use of Wi-Fi technology in indoor and outdoor location systems and advancements in AR and VR), and challenges (overcrowding of unlicensed wireless frequency spectrum, coexistence issues with use of GHz 5 GHz band Wi-Fi with LTE in LTE-U) influencing the growth of the Wi-Fi chipset market
- Product Development/Innovation: Detailed insights into upcoming technologies, research and development activities, and the latest product and service launches in the Wi-Fi chipset market
- Market Development: Comprehensive information about lucrative markets - the report analyzes the Wi-Fi chipset market across varied regions
- Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the Wi-Fi chipset market

- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, such as Qualcomm Technologies, Inc. (US), Broadcom (US), MediaTek (Taiwan), Intel Corporation (US), and Realtek Semiconductor Corp. (Taiwan), in the Wi-Fi chipset market

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