

Global Smartphone Wi-Fi Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Smartphone Wi-Fi Module market size was valued at US\$ 2939 million in 2025 and is forecast to a readjusted size of US\$ 4179 million by 2032 with a CAGR of 5.0% during review period.

A smartphone Wi-Fi module generally refers to a WLAN connectivity subsystem delivered as a “drop-in functional unit” for direct integration into the handset. It typically comprises a Wi-Fi connectivity chip (often co-packaged or co-designed with Bluetooth), essential RF circuitry and power/clock support, selected passive components, and shielding and thermal structures, implemented in LGA/BGA packaging or as a SiP/compact module and mounted on the smartphone mainboard to operate in coordination with the primary platform via standard interfaces. Its core objective is to provide high-throughput, low-latency, and stable network access in indoor and short-range scenarios under the smartphone’s stringent constraints on space, power consumption, and thermal budget, while maintaining consistent user-perceived performance in complex electromagnetic environments and multi-device concurrency, and at the same time reducing OEM integration complexity and mass-production risk. By adopting a modular approach, RF matching, component selection, portions of tuning, and consistency control are shifted upstream to the supplier, which reduces uncertainty in PCB routing and antenna design, shortens validation cycles, and improves interoperability and regulatory certification success rates. Historically, early smartphones relied mainly on board-level integration of discrete connectivity chips and peripheral components; as dual-band operation became standard, data rates and concurrency requirements increased, and handset designs grew thinner, the supply chain gradually moved toward tighter packaging and standardized reference designs, evolving into semi-modular solutions based on combo chips with highly standardized

surrounding components, and further into SiP or module delivery to improve consistency and reduce footprint. With the transition from Wi-Fi 5 to Wi-Fi 6/6E and the growing importance of system-level coordination—such as power management, congestion control, roaming experience, and radio coexistence algorithms—Wi-Fi modules increasingly emphasize integrated delivery of hardware, firmware, drivers, and test and certification support. Upstream, the supply chain spans raw materials and components including silicon wafers, photoresists, specialty gases and wet chemicals, and metallization materials for semiconductor manufacturing; organic substrates or carriers, solder balls and paste, molding and underfill compounds, EMI shielding and absorbing materials, and thermal interface materials for packaging and module assembly; as well as key devices and materials used within and around the module, such as RF components (power amplifiers, low-noise amplifiers, and switches), filters and passive matching networks (inductors and capacitors), timing devices (crystals and oscillators), power-management-related components, connectors and flexible printed circuits, and antenna and coaxial or board-level interconnects, culminating in antenna and RF tuning, interoperability testing, regulatory compliance, and high-volume manufacturing integration at the handset level.

In 2025, global capacity for smartphone Wi-Fi modules is estimated at 1.5 billion units, smartphone Wi-Fi module shipments are projected to reach 1.23 billion units, the average selling price is approximately USD 2.32 per unit, and leading suppliers are expected to achieve gross margins in the range of 49% to 63%.

This report is a detailed and comprehensive analysis for global Smartphone Wi-Fi Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Smartphone Wi-Fi Module market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Smartphone Wi-Fi Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Smartphone Wi-Fi Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Smartphone Wi-Fi Module market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Smartphone Wi-Fi Module
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Smartphone Wi-Fi Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Broadcom, Qualcomm, MediaTek, Samsung Electronics (System LSI), Apple, HiSilicon (Huawei), UNISOC, USI (Universal Scientific Industrial), Qorvo, Skyworks, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Smartphone Wi-Fi Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Wi-Fi 5

Wi-Fi 6/6E

Wi-Fi 7

Market segment by Spatial Streams & PHY Capability

1?1 MIMO

2?2 MIMO

Market segment by Integration & Packaging Form

SoC-integrated Wi-Fi Solution

Discrete Wi-Fi/Bluetooth Solution

Market segment by Application

IOS System Mobile Phone

Android Mobile Phone

HarmonyOS Mobile Phone

Others

Major players covered

Broadcom

Qualcomm

MediaTek

Samsung Electronics (System LSI)

Apple

HiSilicon (Huawei)

UNISOC

USI (Universal Scientific Industrial)

Qorvo

Skyworks

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Smartphone Wi-Fi Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Smartphone Wi-Fi Module, with price, sales quantity, revenue, and global market share of Smartphone Wi-Fi Module from 2021 to 2026.

Chapter 3, the Smartphone Wi-Fi Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smartphone Wi-Fi Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Smartphone Wi-Fi Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Smartphone Wi-Fi Module.

Chapter 14 and 15, to describe Smartphone Wi-Fi Module sales channel, distributors, customers, research findings and conclusion.

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