

# Global Automotive Wi-Fi Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G5191A029DFEEN.html>

Date: February 2026

Pages: 128

Price: US\$ 4,480.00 (Single User License)

ID: G5191A029DFEEN

## Abstracts

The global Automotive Wi-Fi Module market size is expected to reach \$ 7488 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032). Automotive Wi-Fi modules are wireless communication subsystems engineered for automotive environments, integrating Wi-Fi radio, communication chipsets, antennas, and protocol stacks to enable in-vehicle internet access, infotainment (IVI), remote diagnostics, over-the-air (OTA) software updates, and secure data transmission. These modules are typically compliant with automotive reliability standards such as AEC-Q100 and can operate stably across wide temperature and vibration conditions, making them key short-range wireless components in connected vehicle architectures. As software-defined vehicles and smart cockpits become strategic priorities for OEMs, Wi-Fi modules have evolved from ancillary features to foundational elements that enhance user experience and lifecycle services. Form factors range from standalone interfaces to integrated designs with Bluetooth and cellular protocols to support multi-protocol wireless collaboration.

Market opportunities for automotive Wi-Fi stem from the global trends of vehicle connectivity and intelligence, rising demand for digital passenger experiences, and the necessity for high-bandwidth, low-latency communication for OTA services and in-car data. Policy initiatives in various countries promoting intelligent transportation systems and connected vehicle standards provide technical norms and compliance frameworks for short-range communication technologies. Meanwhile, advances in materials and wireless chip technologies have reduced power consumption and component costs while improving high-frequency performance. These drivers encourage OEMs and Tier1 suppliers to adopt automotive Wi-Fi modules. However, the sector also faces challenges including spectrum coexistence issues, stringent in-vehicle network security requirements, and lengthy automotive qualification cycles, necessitating cross-industry cooperation and standards alignment.

In the supply chain, upstream players are core chipset designers and manufacturers such as Infineon and NXP, supplying Wi-Fi and Bluetooth RF and baseband silicon with automotive-grade platforms and security subsystems. Midstream are module manufacturers and RF integrators like LG Innotek, u-blox, and Rolling Wireless, which integrate wireless silicon, antennas, and interface logic into automotive-qualified modules and provide hardware/software adaptation support. Downstream are vehicle OEMs and Tier1 automotive electronics suppliers that integrate these modules into infotainment systems, domain controllers, and gateways to fulfill connected vehicle and smart cockpit requirements. The supply chain exhibits high levels of collaboration, often involving joint product validation and software-defined vehicle platform adaptation between chipset vendors and module manufacturers. Regarding market segmentation trends, demand for automotive Wi-Fi modules is shifting from basic in-car hotspots and entertainment streaming toward complex scenarios such as smart cabins, connected OTA security updates, and edge-assisted collaborative computing. Passenger vehicles, particularly in mid-to-high-end segments, increasingly require high-bandwidth, low-latency wireless experiences, driving adoption of Wi-Fi 6E and emerging Wi-Fi 7 technologies in automotive-grade modules. The rise of EV and automated driving architectures with frequent OTA updates further elevates the role of Wi-Fi modules in lifecycle communication. In the aftermarket, personalized wireless connectivity tools and software integration services are emerging to meet consumer customization demands.

Regional market trends show clear distinctions. The North American market, propelled by software-defined vehicles and vehicle-as-a-service models, has matured early, with strong integration of Wi-Fi modules into vehicle service ecosystems. China and the broader Asia-Pacific region, supported by robust automotive production and connected vehicle policies, have rapidly enhanced local supply chain capabilities for module manufacturing and integration. Europe places a strong emphasis on safety standards and cross-domain connectivity, focusing on secure integration of wireless modules with vehicle control systems. Other emerging markets are gradually introducing Wi-Fi connectivity to enhance product competitiveness as part of global automotive intelligence trends.

In recent developments, in March 2021 LG Innotek announced the world's first automotive Wi-Fi 6E module to advance IVI communication capabilities. In October 2023, NXP introduced an automotive wireless connectivity solution supporting dual Wi-Fi 6E and Bluetooth 5.3, emphasizing secure OTA and software-defined vehicle communication. In early 2024, u-blox showcased automotive-grade modules integrating Wi-Fi 6E and Bluetooth LE Audio, signaling further advancement of multi-protocol wireless performance in automotive contexts.

This report studies the global Automotive Wi-Fi Module production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Wi-Fi Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Wi-Fi Module that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Automotive Wi-Fi Module total production and demand, 2021-2032, (K Units)

Global Automotive Wi-Fi Module total production value, 2021-2032, (USD Million)

Global Automotive Wi-Fi Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Wi-Fi Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Wi-Fi Module domestic production, consumption, key domestic manufacturers and share

Global Automotive Wi-Fi Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Wi-Fi Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Wi-Fi Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Wi-Fi Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Quectel Wireless Solutions Co., Ltd., u?blox Holding AG, LG Innotek Co., Ltd., Murata Manufacturing Co., Ltd., Infineon Technologies AG, NXP Semiconductors N.V., Texas Instruments Incorporated, STMicroelectronics N.V., Marvell Technology Group Ltd., Qualcomm Technologies, Inc., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Wi-Fi Module market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global Automotive Wi-Fi Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Automotive Wi-Fi Module Market, Segmentation by Type:

WiFi 6 Module

WiFi 5 Module

Others

### Global Automotive Wi-Fi Module Market, Segmentation by Assembly Process:

Surface Mount Technology (SMT) Module

Through-Hole Technology (THT) Module

### Global Automotive Wi-Fi Module Market, Segmentation by Packaging Architecture:

Discrete Component Module

System-in-Package (SiP) Module

Multi-Chip Module (MCM)

Hybrid RF Module

Global Automotive Wi-Fi Module Market, Segmentation by Application:

Commercial Vehicle

Passenger Car

**Companies Profiled:**

Quectel Wireless Solutions Co., Ltd.

u?blox Holding AG

LG Innotek Co., Ltd.

Murata Manufacturing Co., Ltd.

Infineon Technologies AG

NXP Semiconductors N.V.

Texas Instruments Incorporated

STMicroelectronics N.V.

Marvell Technology Group Ltd.

Qualcomm Technologies, Inc.

Panasonic Corporation

Renesas Electronics Corporation

Broadcom Inc.

**Key Questions Answered:**

1. How big is the global Automotive Wi-Fi Module market?
2. What is the demand of the global Automotive Wi-Fi Module market?
3. What is the year over year growth of the global Automotive Wi-Fi Module market?
4. What is the production and production value of the global Automotive Wi-Fi Module market?
5. Who are the key producers in the global Automotive Wi-Fi Module market?
6. What are the growth factors driving the market demand?

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