

# Global Automotive Microcontrollers (MCU) Market Growth 2025-2031

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## Abstracts

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The global Automotive Microcontrollers (MCU) market size is predicted to grow from US\$ 12570 million in 2025 to US\$ 17840 million in 2031; it is expected to grow at a CAGR of 6.0% from 2025 to 2031.

Automotive microcontrollers are integrated chips, which enable control over the automobile functioning. Compact microcontrollers comprising least component designs are integrated into automobiles for performing activities that need functionalities such as monitoring and controlling. The automotive microcontroller is a microcomputer integrated on a chip with the CPU as the core. It fully controls various electronic systems in the car, including but not limited to multimedia devices, audio systems, navigation devices, suspension and other key components. It can be said that the automotive microcontroller is the 'brain' of the car, playing the core functions of 'thinking, computing, and controlling'.

The global key manufacturers of Automotive Microcontrollers (MCU) include Infineon Technologies, NXP Semiconductors, Renesas Electronics, Microchip Technology, etc. In 2023, the global top four players had a share approximately 76.0% in terms of revenue.

The demand for automotive controllers with higher capacities and performance is increasing from the automotive industry. Vendors of the automotive microcontrollers have been focusing on catering to the needs to increase customer base. For instance, Renesas Electronics developed a flash memory technology for automotive microcontrollers. The technology allows microcontrollers to achieve higher capacity,

faster readout speeds, and over-the-air (OTA) support. These beneficial factors are expected to boost the adoption of automotive microcontrollers with new flash technology, which is one of the key automotive microcontrollers (MCU) market trends. OTA is crucial in maintaining the safety and security of vehicles. Therefore, the trend will have a positive influence on market growth over the forecast period.

Technological innovations have an important role in driving the growth of the market. To sustain in the competitive market, vendors should develop new ideas and technologies and stay up-to-date with the advanced technologies.

Automated electronic control technologies for automotive systems such as advanced driver assistance systems (ADAS), electronic stability control (ESC), and electronic control unit (ECU) have been evolving year after year. The new trend in the automotive industry is to manufacture vehicles that feature advanced technologies with the optimized weight-cost ratio.

Automotive microcontrollers (MCU) is the core component of the automotive electronic system. Under the 'new four trends' of automotive electrification, intelligence, networking and sharing, major automobile manufacturers have continuously increased their requirements for the architectural integration and functional complexity of automotive MCUs, and the market is expanding. The new trends of automobiles will bring more abundant electronic functions, driving a substantial increase in the demand for automotive components such as MCU. In the future, market competition will become increasingly fierce.

LP Information, Inc. (LPI) ' newest research report, the “Automotive Microcontrollers (MCU) Industry Forecast” looks at past sales and reviews total world Automotive Microcontrollers (MCU) sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Microcontrollers (MCU) sales for 2025 through 2031. With Automotive Microcontrollers (MCU) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Microcontrollers (MCU) industry.

This Insight Report provides a comprehensive analysis of the global Automotive Microcontrollers (MCU) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Microcontrollers (MCU) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these

firms' unique position in an accelerating global Automotive Microcontrollers (MCU) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Microcontrollers (MCU) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Microcontrollers (MCU).

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Microcontrollers (MCU) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

8-Bit Microcontrollers

16-Bit Microcontrollers

32-Bit Microcontrollers

Segmentation by Application:

Body Electronics

Chassis and Powertrain

Infotainment and Telematics

Safety & Security

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Infineon Technologies

NXP Semiconductors

Renesas Electronics

Microchip Technology

STMicroelectronics

Texas Instruments

Analog Devices

Silicon Laboratories

Toshiba

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Microcontrollers (MCU) market?

What factors are driving Automotive Microcontrollers (MCU) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Microcontrollers (MCU) market opportunities vary by end market size?

How does Automotive Microcontrollers (MCU) break out by Type, by Application?

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