

# Global Motor Drive MCU 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 Motor Drive MCU market size was valued at US\$ 3496 million in 2025 and is forecast to a readjusted size of US\$ 5042 million by 2032 with a CAGR of 5.4% during review period.

Stepper motors, brushless DC motors, DC motors, and AC induction motors are the four major mainstream products in the motor field. Each of them has its own unique performance advantages and is widely used in industrial automation, consumer electronics, automobiles, home appliances and other fields. In order to achieve accurate and efficient control of these motors, the microcontroller unit (MCU) used for motor driving plays a vital role.

Stepper motors are often used in situations that require precise positioning and low-speed and smooth operation, such as 3D printers and CNC machine tools, with their precise step angles and good position retention. For the drive of stepper motors, MCUs need to have accurate pulse generation capabilities and powerful computing power to process complex step control algorithms to ensure that stepper motors can accurately rotate according to the predetermined step distance.

Brushless DC motors are widely used in drones, electric vehicles, home appliances and other fields with their high efficiency, low noise and long life. The control of brushless motors depends on electronic commutation technology. MCUs need to integrate advanced PWM (pulse width modulation) control and FOC (field oriented control) algorithms to achieve efficient operation and precise speed regulation of motors.

DC motors are widely used in power tools, toy cars, small fans and other products due

to their simple structure, low cost and large starting torque. In DC motor control, MCU is mainly responsible for speed regulation and current protection. It controls the speed and torque of the motor by adjusting the voltage or current, and monitors the motor status to prevent overload or overheating.

AC induction motors, with their high power density and easy maintenance, dominate the fields of large-scale mechanical equipment, industrial production lines, wind power generation, etc. In AC motor control, MCU usually adopts vector control or V/F control strategy to achieve smooth start, efficient operation and precise speed regulation of the motor by accurately controlling the proportional relationship between voltage and frequency.

In general, motor drive MCU is a solution designed for the field of motor control. It integrates industry-leading advanced control algorithms and excellent high-performance power output capabilities. It is developed for efficient and precise motor drive tasks to meet the needs of diversified motor control systems.

In the current era of booming intelligence and automation, motor drive/control chips are playing an increasingly critical role as the 'heart' that drives various types of intelligent terminal devices. Among them, MCU (microcontroller) has become the undisputed mainstream solution in the global motor drive field with its highly integrated CPU, RAM, ROM, timer counter and multiple I/O interfaces. From the perspective of the global market, the motor drive MCU market shows strong growth potential and is expected to continue to rise at an annual compound growth rate of 5.56% by 2031. This growth not only reflects the continuous increase in demand for high-performance motor control chips due to technological progress, but also indicates that intelligent and networked terminal devices have a higher pursuit of chip processing capabilities.

On the production side, the core production areas of motor drive MCUs are widely distributed, but China is undoubtedly the most eye-catching focus. With its huge market size, rapid industrial upgrading and strong government support, China has become the world's largest motor drive MCU production base, with a market share of 46.13% in 2024. With the continuous breakthroughs in domestic high-end MCU technology, the increasing cost advantages, and the continuous strengthening of national policy support, China is expected to further consolidate its market position in the next few years, and its market share is expected to reach 46.7% by 2031. This trend not only highlights the rising power of China's semiconductor industry, but also injects new vitality and variables into the global motor drive MCU market.

In terms of product types and application fields, 32-bit MCUs are leading the development trend of motor drive chips with their excellent performance and wide application scenarios. With the advent of the Internet of Things era, the requirements for chip performance and processing power of terminal devices in the consumer, industrial, and automotive markets are getting higher and higher, prompting MCUs to move from 8-bit and 16-bit to 32-bit. It is expected that by 2031, the market share of 32-bit MCUs in the motor drive segment will reach 70.6%, becoming the absolute main force. At the application level, motor drive MCUs are widely used in various types of motors such as brushed DC motors, brushless DC motors/permanent magnet synchronous motors, induction motors or stepper motors, and the terminal application scenarios of these motors cover home appliances, automobiles, robots, industrial servo systems, power tools and other fields. Especially in the fields of home appliances and automobiles, motor drive MCUs are widely used, accounting for a total of 64.05% of the market share in 2024. Among them, the automotive field has shown strong growth momentum, and the CAGR is expected to reach 8.09% in the next few years. This trend not only reflects the urgent need for the automotive industry to transform into intelligent and electrified, but also brings unprecedented development opportunities to the motor drive MCU market.

In the fierce market competition, global core manufacturers of motor drive MCUs have started to wrestle for a larger market share. First-tier manufacturers such as NXP, STMicroelectronics, Microchip, and Infineon have dominated the market with their strong technical strength and brand influence. However, with the rapid rise of domestic Chinese manufacturers, such as Fortior Technology, Nuvoton, Nanjing Linko Semiconductor, etc., the competitive landscape of the global motor drive MCU market is undergoing profound changes. These Chinese manufacturers have demonstrated strong competitiveness in the mid- and low-end markets with rapid technology iterations and significant price advantages. However, in the face of increasingly fierce market competition and escalating technological demands, new entrants must actively seek breakthroughs in the high-end field to gain a larger market share and a broader space for development. In the future, the motor drive MCU market will present a more diversified and more competitive landscape.

This report is a detailed and comprehensive analysis for global Motor Drive MCU 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 Motor Drive MCU market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Motor Drive MCU 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 Motor Drive MCU 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 Motor Drive MCU 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 Motor Drive MCU

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 Motor Drive MCU 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 NXP, STMicroelectronics, Microchip, Infineon Technologies, Renesas Electronics, Texas Instruments, Fortior Technology, Nuvoton, Toshiba, Nanjing Linko Semiconductor, etc.

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

### **Market Segmentation**

Motor Drive MCU 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

8-bit

32-bit

Others

#### Market segment by Motor

Brushed DC Motor MCU

Brushless DC Motor MCU

Stepper Motor MCU

AC Motor MCU

#### Market segment by Application

Home Appliances

Automotive

Robots

Power Tools

Industrial Servo Systems

Electric Mobility

Others

## Major players covered

NXP

STMicroelectronics

Microchip

Infineon Technologies

Renesas Electronics

Texas Instruments

Fortior Technology

Nuvoton

Toshiba

Nanjing Linko Semiconductor

SinoWealth

Huada Semiconductor

Silicon Labs

Silan

GigaDevice

PADAUK Technology

Generalplus Technology

BYD Semiconductor

Chipsea Technologies (Shenzhen) Corp

Cmsemicon

Nations Technologies Incorporated

Holtek

Shanghai MindMotion Microelectronics

Energictek

Taixin Semiconductor

Guangdong Synwit

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 Motor Drive MCU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Motor Drive MCU, with price, sales quantity, revenue, and global market share of Motor Drive MCU from 2021 to 2026.

Chapter 3, the Motor Drive MCU competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Motor Drive MCU 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 Motor Drive MCU 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 Motor Drive MCU.

Chapter 14 and 15, to describe Motor Drive MCU sales channel, distributors, customers, research findings and conclusion.

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