

Global Motor Control Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Motor Control Chip market size is expected to reach \$ 12603 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

Motor control ICs are integrated circuits used to drive, regulate, and protect electric motors. They typically provide bridge driving, gate driving, current regulation, PWM generation, commutation control, speed and torque control, position or Hall-sensor interface, fault diagnostics, over-current and over-temperature protection, and coordination with microcontrollers, sensors, power devices, and communication interfaces. This study focuses on motor driver ICs, motor control ICs, pre-driver and gate-driver ICs, integrated-FET motor drivers, motor control SoCs, and dedicated motor-control MCUs or DSCs used in brushed DC, brushless DC, PMSM, stepper, fan, pump, actuator, compressor, home appliance, power tool, automotive mechatronic, robotics, and industrial automation applications.

Motor control ICs are a structurally important semiconductor category that connects low-voltage logic control, power-stage driving, sensing, protection, and motion-control algorithms. The market is broader than simple motor driver chips, but it should not be confused with complete motors, servo drives, inverters, power modules, or industrial drive systems. Under the narrow-to-mid scope used in this study, the industry mainly covers integrated motor driver ICs, motor gate or pre-driver ICs, BLDC and PMSM control ICs, stepper motor driver ICs, motor-control SoCs, and dedicated motor-control MCUs or DSCs. The value of these devices lies not only in delivering current to the motor, but also in improving efficiency, reducing acoustic noise, enabling precise speed and torque control, supporting diagnostic feedback, protecting the power stage, and simplifying system design.

From the supply structure perspective, the global market is led by large analog, power-management, automotive semiconductor, and embedded-control suppliers. Companies such as Texas Instruments, Infineon, STMicroelectronics, Allegro MicroSystems, Toshiba, NXP, Renesas, Microchip, onsemi, Analog Devices, MPS, ROHM, Melexis, Sanken, and Nisshinbo benefit from broad product portfolios, long customer relationships, automotive qualification capability, motor-control software resources, and reference-design ecosystems. These companies are particularly strong in automotive mechatronics, industrial equipment, home appliances, high-reliability motor systems, and applications that require long product life cycles. At the same time, Mainland China and Taiwan have developed a more active supplier base in BLDC control chips, motor-control MCUs, small motor drivers, home-appliance controllers, consumer motor drivers, and cost-optimized SoC solutions. Fortior Technology, Geehy, SinoWealth, MindMotion, GigaDevice, Awinic, NOVOSENSE, Holtek, Richtek, Nuvoton, Fitipower, and other regional suppliers are increasingly visible in local supply chains, especially where fast customer support, system-level adaptation, and price-performance balance are decisive.

Demand growth is being driven by several structural forces rather than a single end market. Automotive electronics are adding more small motors for thermal management, seat adjustment, window lift, sunroof, door control, fuel and coolant pumps, air flaps, fans, valves, and body actuators. Home appliances and HVAC systems are moving toward inverter-based, quieter, and more energy-efficient motor control. Power tools and garden tools continue to shift from brushed to brushless architectures. Data centers, telecom equipment, and computing systems require more efficient fan and thermal-management solutions. Industrial automation and robotics are increasing the need for compact, precise, and reliable motion-control components. These trends support long-term demand for BLDC/PMSM drivers, high-voltage motor driver ICs, integrated gate drivers, motor-control SoCs, and dedicated MCUs with richer peripherals and software libraries. Policy pressure around energy efficiency and system reliability also strengthens the adoption of more advanced motor-control semiconductor solutions.

From a technology and competition perspective, the industry is moving from discrete, low-integration motor-driving architectures toward higher levels of integration and intelligence. Basic H-bridge and low-cost fan drivers remain high-volume but price-sensitive, while higher-value segments increasingly require integrated current sensing, protection diagnostics, communication interfaces, sensorless control, field-oriented control support, multi-phase driving, LIN/CAN connectivity, functional-safety features, and development tools. In automotive and industrial applications, the competitive

threshold is shifting toward qualification, robustness, software support, and system-level know-how. In consumer appliances and tools, the key battleground is cost-effective integration and fast design-in. Over the medium term, suppliers with strong combinations of motor driver ICs, MCUs, power devices, reference designs, firmware libraries, and local application engineering are likely to gain share. Pure low-end driver suppliers may remain relevant in high-volume applications, but they face stronger pricing pressure and a rising risk of functional integration into motor-control SoCs or MCU-led platforms.

This report studies the global Motor Control Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Motor Control Chip 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 Motor Control Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Motor Control Chip total production and demand, 2021-2032, (K pieces)

Global Motor Control Chip total production value, 2021-2032, (USD Million)

Global Motor Control Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K pieces), (based on production site)

Global Motor Control Chip consumption by region & country, CAGR, 2021-2032 & (K pieces)

U.S. VS China: Motor Control Chip domestic production, consumption, key domestic manufacturers and share

Global Motor Control Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K pieces)

Global Motor Control Chip production by Motor Type, production, value, CAGR, 2021-2032, (USD Million) & (K pieces)

Global Motor Control Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K pieces)

This report profiles key players in the global Motor Control Chip 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 Texas Instruments Incorporated, Infineon Technologies AG, STMicroelectronics N.V., Allegro MicroSystems, Inc., Toshiba

Electronic Devices & Storage Corporation, NXP Semiconductors N.V., onsemi, Renesas Electronics Corporation, Microchip Technology Inc., Analog Devices, 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 Motor Control Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K pieces) and average price (US\$/piece) by manufacturer, by Motor 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 Motor Control Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Motor Control Chip Market, Segmentation by Motor Type:

Brushed DC Motor

BLDC / PMSM Motor

Global Motor Control Chip Market, Segmentation by Control Algorithm Support:

Basic On / Off and Direction Control

PWM Speed Control

Hall-sensor Commutation Control

Sensorless BLDC / PMSM Control

Field-oriented Control Support

Global Motor Control Chip Market, Segmentation by Voltage / Power Class:

Low-voltage Small Motor ICs

12V?24V Motor Control ICs

24V?60V Motor Control ICs

High-voltage Offline Motor Driver ICs

Global Motor Control Chip Market, Segmentation by Application:

Automotive Mechatronics

Home Appliances and HVAC

Industrial Automation and Robotics

Consumer Electronics and PC Peripherals

Power Tools and Garden Tools

Medical, IoT and Other Devices

Companies Profiled:

Texas Instruments Incorporated

Infineon Technologies AG

STMicroelectronics N.V.

Allegro MicroSystems, Inc.

Toshiba Electronic Devices & Storage Corporation

NXP Semiconductors N.V.

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Renesas Electronics Corporation

Microchip Technology Inc.

Analog Devices, Inc.

Monolithic Power Systems, Inc.

ROHM Co., Ltd.

Melexis N.V.

Sanken Electric Co., Ltd.

Nisshinbo Micro Devices Inc.

Power Integrations, Inc.

Diodes Incorporated

Silergy Corp.

Nuvoton Technology Corporation

Fortior Technology (Shenzhen) Co., Ltd.

Richtek Technology Corporation

Elmos Semiconductor SE

Holtek Semiconductor Inc.

SinoWealth Electronic Ltd.

Alpha and Omega Semiconductor Limited

Fitipower Integrated Technology Inc.

Geehy Semiconductor Co., Ltd.

Awinic Technology Co., Ltd.

NOVOSENSE Microelectronics Co., Ltd.

MindMotion Microelectronics Co., Ltd.

GigaDevice Semiconductor Inc.

Artery Technology Co., Ltd.

CMSemicon Co., Ltd.

Silicon Laboratories Inc.

ChipON Micro-Electronic Co., Ltd.

Key Questions Answered:

1. How big is the global Motor Control Chip market?
2. What is the demand of the global Motor Control Chip market?
3. What is the year over year growth of the global Motor Control Chip market?
4. What is the production and production value of the global Motor Control Chip market?
5. Who are the key producers in the global Motor Control Chip market?
6. What are the growth factors driving the market demand?

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