

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

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Abstracts

The global Motor Control and Driver ICs market size is expected to reach \$ 12839 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Motor Control and Driver ICs are semiconductor devices designed to control motor operation, drive motor windings, or drive external power switches used in motor systems. These ICs typically perform functions such as motor start/stop control, commutation, speed regulation, torque control, position control, PWM generation, current sensing, gate driving, overcurrent protection, overtemperature protection, undervoltage protection, fault diagnosis, and communication with the host controller. Major product forms include brushed DC motor driver ICs, brushless DC motor driver ICs, PMSM motor control ICs, stepper motor driver ICs, servo motor control ICs, H-bridge driver ICs, half-bridge and three-phase gate driver ICs, motor pre-driver ICs, integrated motor drivers with embedded power MOSFETs, smart motor driver ICs, and motor-control-oriented MCUs or SoCs. These chips are widely used in automotive electronics, home appliances, industrial automation, robotics, power tools, drones, consumer electronics, IT cooling systems, medical equipment, and office equipment, enabling higher energy efficiency, lower acoustic noise, smaller system size, better protection, and more intelligent motion control.

Motor Control and Driver ICs should be defined around their actual control and drive functions rather than around every semiconductor product that may appear in a motor system. The core scope includes driver ICs, controller ICs, gate drivers, pre-drivers, integrated drivers, smart power ICs, and motor-control-focused MCUs or SoCs. This scope is materially different from electric motors, inverter systems, servo drives, power modules, and generic discrete power semiconductors. A clear boundary is important

because the motor system value chain is long and often includes chip vendors, power device vendors, control board makers, motor OEMs, inverter makers, servo system suppliers, and end-equipment manufacturers. For industry research, the most practical definition is to focus on chips that directly execute motor control logic, generate drive signals, or provide integrated motor-driving capability. This approach avoids overstating the market by mixing ICs with complete motor systems or broad power semiconductor categories. From the supply-side perspective, the global Motor Control and Driver IC market is led by broad-line analog, embedded control, and power semiconductor companies with strong product portfolios across automotive, industrial, consumer, and home appliance applications. Leading international suppliers typically offer a combination of motor driver ICs, gate drivers, motor-control MCUs, protection functions, reference designs, and software tools, allowing them to support customers from device selection to system validation. Their advantages are especially strong in automotive-grade, high-voltage, high-reliability, and industrial applications, where qualification cycles, functional safety requirements, diagnostics, electromagnetic compatibility, and long-term supply commitments create high entry barriers. In contrast, emerging regional suppliers tend to enter through lower-voltage BLDC drivers, home appliances, small fans, pumps, power tools, consumer electronics, and other cost-sensitive applications where local technical support and fast customization are valued. Demand growth is being driven less by the absolute number of motors and more by the increasing sophistication of motor control. The shift from brushed DC motors to BLDC and PMSM motors increases demand for commutation logic, current sensing, gate driving, protection, and control algorithms. The migration from fixed-speed operation to variable-speed inverter control raises the value of driver ICs and motor-control MCUs in home appliances, pumps, fans, compressors, and industrial equipment. Automotive electrification is also increasing the number and performance requirements of small and medium-sized motors used in body comfort, thermal management, chassis, safety, and cabin systems. At the same time, robotics, drones, server cooling, smart home devices, and high-speed personal appliances are creating demand for compact, efficient, low-noise, and highly integrated motor control solutions. From a product roadmap perspective, the industry is moving toward higher integration, smarter diagnostics, more advanced control algorithms, and broader automotive and industrial qualification. Integrated drivers that combine control logic, gate drive, protection, current sensing, communication interfaces, and in some cases embedded MOSFETs are gaining adoption in low- and medium-power applications. For BLDC and PMSM systems, sensorless FOC, sinusoidal control, low acoustic noise, high efficiency, and fast dynamic response are becoming important differentiation factors. In automotive and industrial markets, suppliers are strengthening fault diagnosis, protection, thermal management, EMC robustness, functional safety features, and long-term reliability.

These trends favor companies with strong mixed-signal design capability, motor algorithm expertise, application engineering resources, and deep customer validation experience. The competitive landscape will likely remain segmented by application and reliability grade rather than converge into a single homogeneous market. Global incumbents are expected to retain advantages in automotive, industrial, high-voltage, high-current, and safety-critical applications because of their qualification records, product breadth, software ecosystems, and system-level support. Local and emerging suppliers are more likely to gain share in consumer electronics, home appliances, small BLDC motors, fans, pumps, power tools, and selected industrial low-power applications. Over time, the most attractive opportunities will come from applications where motor efficiency, acoustic performance, compact design, and intelligent control become key purchasing criteria. However, price pressure will remain significant in commodity driver ICs, and vendors without differentiated algorithms, integration, reliability, or customer support capabilities may face margin compression.

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

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

Highlights and key features of the study

Global Motor Control and Driver ICs total production and demand, 2021-2032, (Million Units)

Global Motor Control and Driver ICs total production value, 2021-2032, (USD Million)

Global Motor Control and Driver ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Motor Control and Driver ICs consumption by region & country, CAGR, 2021-2032 & (Million Units)

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

Global Motor Control and Driver ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Motor Control and Driver ICs production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Motor Control and Driver ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Motor Control and Driver ICs 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 Infineon Technologies AG, Texas Instruments Incorporated, STMicroelectronics N.V., Renesas Electronics Corporation, Microchip Technology Inc., Toshiba Electronic Devices & Storage Corporation, NXP Semiconductors N.V., Allegro MicroSystems, Inc., Monolithic Power Systems, Inc., ROHM Co., Ltd., 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 and Driver ICs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Voltage, 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 and Driver ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Motor Control and Driver ICs Market, Segmentation by Voltage:

Low-voltage Motor Driver ICs

Medium-voltage Motor Driver ICs

High-voltage Motor Driver ICs

Global Motor Control and Driver ICs Market, Segmentation by Power Stage Configuration:

Low-side Driver

High-side Driver

Half-bridge Driver

Full-bridge / H-bridge Driver

Three-phase Bridge Driver

Multi-channel Driver

Global Motor Control and Driver ICs Market, Segmentation by Algorithm Capability:

Basic Speed Control

Closed-loop Speed Control

Torque Control

Position Control

Sensorless FOC

Multi-axis Motion Control

Global Motor Control and Driver ICs Market, Segmentation by Application:

Electric Bicycle

Vacuum Cleaner

Sweeper

Others

Companies Profiled:

Infineon Technologies AG

Texas Instruments Incorporated

STMicroelectronics N.V.

Renesas Electronics Corporation

Microchip Technology Inc.

Toshiba Electronic Devices & Storage Corporation

NXP Semiconductors N.V.

Allegro MicroSystems, Inc.

Monolithic Power Systems, Inc.

ROHM Co., Ltd.

Diodes Incorporated

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Melexis NV

Fortior Technology Co., Ltd.

Sino Wealth Electronic Ltd.

3PEAK Incorporated

GigaDevice Semiconductor Inc.

Silergy Corp.

BYD Semiconductor

Chipsea Technologies

Key Questions Answered:

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

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