

Global Motor Control and Driver ICs 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 Control and Driver ICs market size was valued at US\$ 7923 million in 2025 and is forecast to a readjusted size of US\$ 12839 million by 2032 with a CAGR of 7.0% during review period.

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 is a detailed and comprehensive analysis for global Motor Control and Driver ICs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Voltage 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 Control and Driver ICs market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Motor Control and Driver ICs 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 Control and Driver ICs market size and forecasts, by Voltage and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Motor Control and Driver ICs 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 Control and Driver ICs

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 Control and Driver ICs 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 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.

Market Segmentation

Motor Control and Driver ICs market is split by Voltage and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Voltage, 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 Voltage

Low-voltage Motor Driver ICs

Medium-voltage Motor Driver ICs

High-voltage Motor Driver ICs

Market segment 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

Market segment by Algorithm Capability

Basic Speed Control

Closed-loop Speed Control

Torque Control

Position Control

Sensorless FOC

Multi-axis Motion Control

Market segment by Application

Electric Bicycle

Vacuum Cleaner

Sweeper

Others

Major players covered

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

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 Control and Driver ICs product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Motor Control and Driver ICs 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 Voltage and by Application, with sales market share and growth rate by Voltage, 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 Control and Driver ICs market forecast, by regions, by Voltage, 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 Control and Driver ICs.

Chapter 14 and 15, to describe Motor Control and Driver ICs sales channel, distributors, customers, research findings and conclusion.

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