

Global Motor Control and Driver Chip 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 Chip market size was valued at US\$ 8599 million in 2025 and is forecast to a readjusted size of US\$ 19636 million by 2032 with a CAGR of 12.4% during review period.

Motor Control and Driver Chips refer to a set of semiconductor devices used to enable motor start/stop, speed regulation, direction control, commutation, and closed-loop control across various motor types, while driving and protecting the power stage switches. They typically include control chips (such as general-purpose MCUs, motor-control MCUs/DSPs, or dedicated control SoCs for PWM generation, control algorithms and parameter management, signal sensing and fault diagnostics, and communication interfaces) and driver chips (such as half-bridge/full-bridge drivers, three-phase gate drivers, or pre-drivers that drive MOSFETs/IGBTs and provide protections including over-current, under-voltage, over-temperature, and short-circuit). These chips are widely used in brushed DC, BLDC, stepper, PMSM/servo, AC induction, switched reluctance, and universal motor systems across home appliances, power tools, industrial automation, automotive motor systems, HVAC, and robotics. In 2025, global shipment volume was 5.969 billion units, with an average selling price of USD 1.4 per unit.

The motor control and driver chip industry covers the core semiconductor functions required for motor start/stop, speed regulation, direction control, commutation, and closed-loop operation. Demand is driven by higher electrification and control penetration across end systems, and by structural upgrades from fixed-speed operation to electronically controlled, high-efficiency, low-noise, and high-reliability solutions. Growth

is increasingly powered by the expansion of electronically controlled motors from consumer appliances and power tools into industrial pumps and fans, HVAC, factory automation, and automotive low-voltage motor and auxiliary electrification systems.

Regionally, Asia typically leads in volume-driven iteration thanks to dense consumer and appliance manufacturing clusters and strong supply-chain coordination, while North America and Europe are more anchored in industrial and automotive deployments with stricter requirements on EMC, reliability, and quality systems, resulting in longer design-in cycles but more stable product lifetimes. In terms of product structure, the market is commonly split into control chips and driver chips. Control chips include general-purpose MCUs, motor-control MCUs/DSPs, and dedicated control SoCs, where differentiation centers on PWM resources, analog peripherals such as ADCs and comparators, compute capability, and software ecosystems. Driver chips include half-bridge/full-bridge drivers and three-phase gate drivers or pre-drivers, where differentiation centers on high/low-side drive capability, protection features, and noise immunity. By application, consumer and light industrial segments prioritize cost and integration, industrial segments prioritize robustness across wide temperature/voltage ranges and long-term supply, and automotive segments prioritize functional safety, controlled failure behavior, and stringent validation consistency.

On cost structure, wafer fabrication and packaging and test are the primary direct cost components, while software and field-application engineering, IP and toolchain buildout, and qualification-related testing and quality maintenance materially shape profitability. Gross margin varies by mix: consumer-oriented control and driver chips often fall in the 30 to 45 percent range, while industrial and automotive programs can reach 40 to 55 percent after qualification, typically accompanied by higher R&D and quality expense intensity. From a manufacturing perspective, single-line capacity is often best described at the back-end bottleneck: for mainstream QFN, TSSOP, and SSOP packages, annual capacity per mature packaging and test line is commonly 80 to 250 million units, and a more concentrated platform SKU strategy accelerates yield ramp and strengthens unit-cost competitiveness.

The value chain spans EDA and IP, foundries, and OSATs upstream; chip designers and solution providers midstream; and motor manufacturers, OEMs, and automotive Tier-1 system integrators downstream. Competition reflects the advantages of global incumbents in portfolio breadth, industrial and automotive qualification systems, long-term supply assurance, and tooling ecosystems, while domestic players often compete through faster iteration, cost structure, and delivery responsiveness in consumer and

general industrial segments. The market is shifting from single-device competition toward platform competition, where development environments and reference designs for control chips, protection and EMC performance for driver chips, and reusable hardware-software solution libraries become decisive levers for share gains.

Key trends include faster adoption of integrated SoCs and higher-integration smart driver forms, broader deployment of FOC and sensorless control in mid-to-low-end use cases, and rising importance of low-EMI design, functional safety, and high-reliability packaging for automotive and premium industrial entry. At the same time, end markets continue to demand better efficiency, lower noise, and improved user experience, pushing more advanced control strategies and more comprehensive diagnostics and protection. Together with supply-chain resilience and localization priorities, these forces are expected to further increase concentration toward leading platforms and intensify competition at the ecosystem and toolchain level.

This report is a detailed and comprehensive analysis for global Motor Control and Driver Chip 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 Control and Driver Chip 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 Chip 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 Chip 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 Control and Driver Chip 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 Chip

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 Chip 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., NXP Semiconductors N.V., ROHM Co., Ltd., Fortior Technology (Shanghai) Co., Ltd., Melexis NV, Allegro MicroSystems, Inc., Elmos Semiconductor SE, Renesas Electronics Corporation, etc.

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

Market Segmentation

Motor Control and Driver Chip 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

Control Chips

Driver Chips

Market segment by Motor Type

BLDC Motors

Brushed DC Motors

Others

Market segment by Sales Channel

Direct Sales

Distribution

Market segment by Application

Smart Small Household Appliance

White Goods

Electric Tools

Sports and Leisure

Industrial

Automotive

Robots

Others

Major players covered

Infineon Technologies AG

Texas Instruments Incorporated

STMicroelectronics N.V.

NXP Semiconductors N.V.

ROHM Co., Ltd.

Fortior Technology (Shanghai) Co., Ltd.

Melexis NV

Allegro MicroSystems, Inc.

Elmos Semiconductor SE

Renesas Electronics Corporation

Toshiba Electronic Devices & Storage Corporation

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 Chip product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Motor Control and Driver Chip 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 Chip 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 Control and Driver Chip 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 Control and Driver Chip.

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

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