

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

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## Abstracts

The global Motor Control and Driver Chip market size is expected to reach \$ 19636 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Motor Control and Driver 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Motor Control and Driver Chip 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 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 and Driver Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Motor Control and Driver Chip Market, Segmentation by Type:

Control Chips

Driver Chips

### Global Motor Control and Driver Chip Market, Segmentation by Motor Type:

BLDC Motors

Brushed DC Motors

Others

### Global Motor Control and Driver Chip Market, Segmentation by Sales Channel:

Direct Sales

Distribution

### Global Motor Control and Driver Chip Market, Segmentation by Application:

Smart Small Household Appliance

White Goods

Electric Tools

Sports and Leisure

Industrial

Automotive

Robots

Others

#### Companies Profiled:

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

#### **Key Questions Answered:**

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

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