

Global BLDC Motor Control and Driver Chip Market Growth 2026-2032

<https://marketpublishers.com/r/G626994B2135EN.html>

Date: May 2026

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: G626994B2135EN

Abstracts

The global BLDC Motor Control and Driver Chip market size is predicted to grow from US\$ 4900 million in 2025 to US\$ 12670 million in 2032; it is expected to grow at a CAGR of 14.0% from 2026 to 2032.

BLDC Motor Control and Driver Chips refer to a set of semiconductor devices used to realize electronic commutation, speed/torque regulation, and power-stage gate driving and protection for brushless DC motors. They typically include motor control chips (such as MCUs or motor-control SoCs that run FOC or six-step commutation, generate PWM, handle sensing and fault diagnostics, and provide communication interfaces) and driver chips (such as three-phase gate drivers or pre-drivers that drive high/low-side power switches and implement protections like over-current, under-voltage, and over-temperature). These chips are widely used in home appliances and small household appliances, power tools, industrial automation (pumps/fans/compressors), automotive motor systems, and robotics. In 2025, global shipment volume was 3.71 billion units, with an average selling price of USD 1.35 per unit.

BLDC motor control and driver chip industry sits within the motor control semiconductor space, driven by rising BLDC penetration and system-level efficiency upgrades. Demand is expanding from traditional white goods to small appliances, power tools, industrial pumps and fans, automotive low-voltage motors, and robotics. The market is evolving from basic commutation to low noise, high efficiency, wide operating range, and high reliability. Growth is increasingly constrained not by pure supply capacity, but by solution maturity, platform reusability, and robust quality systems. Regionally, Asia leads in shipment volume and iteration speed due to consumer and light industrial demand, while North America and Europe are stronger in automotive and industrial use cases with stricter requirements on qualification, functional safety, and EMC, resulting in

longer design-in cycles but more stable lifecycles. Product structure is commonly split into control chips and driver chips. Control chips include general-purpose MCUs, motor-control MCUs, and dedicated control SoCs, emphasizing algorithms and peripheral resources. Driver chips are mainly three-phase gate drivers or pre-drivers, emphasizing high/low-side driving, protection features, and noise immunity. Application structure differs by priorities: consumer products focus on cost and integration, power tools focus on power density and transient protection, industrial focuses on reliability and wide temperature and voltage, and automotive focuses on functional safety, robustness, and long-term supply. Cost structure is dominated by wafer fabrication and packaging and test, plus IP licensing, software and application engineering, and the added burden of automotive qualification and quality maintenance. Consumer segments are more price sensitive, so platform-based cost-down is critical. Industrial and automotive segments carry heavier validation and reliability costs. In manufacturing terms, single-line capacity is often best described at the back-end bottleneck: for mainstream QFN and SSOP packages, annual capacity per mature packaging and test line is typically 80–250 million units, and a more concentrated SKU platform enables faster yield ramp and lower unit cost. Gross margin varies by mix: consumer-oriented control and driver chips often fall in the 30–45 percent range, while industrial and automotive programs can reach 40–55 percent after qualification, supported by higher R&D and quality expense intensity. The value chain includes foundries, OSATs, and EDA/IP upstream; chip designers and solution providers in the middle; and motor makers, OEMs, and Tier-1 suppliers downstream. Competition features global incumbents with broad portfolios and strong automotive barriers, while domestic players tend to compete through faster iteration, cost structure, and delivery responsiveness in consumer and general industrial segments. Key trends include higher integration between control and driving functions, broader adoption of FOC and sensorless control, low-EMI and high-reliability packaging, software toolchains and reference-design ecosystems, and functional-safety capability for automotive and robotics. Supply chain resilience, localization, and platform reuse are pushing higher concentration toward leading players and shifting competition toward platform and ecosystem strength.

LP Information, Inc. (LPI) ' newest research report, the “BLDC Motor Control and Driver Chip Industry Forecast” looks at past sales and reviews total world BLDC Motor Control and Driver Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected BLDC Motor Control and Driver Chip sales for 2026 through 2032. With BLDC Motor Control and Driver Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world BLDC Motor Control and Driver Chip industry.

This Insight Report provides a comprehensive analysis of the global BLDC Motor Control and Driver Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on BLDC Motor Control and Driver Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global BLDC Motor Control and Driver Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for BLDC Motor Control and Driver Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global BLDC Motor Control and Driver Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of BLDC Motor Control and Driver Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Control Chips

Driver Chips

Segmentation by Control Method:

Sensored (Hall)

Sensorless (Back-EMF)

FOC/Vector Control

Segmentation by Sales Channel:

Direct Sales

Distribution

Segmentation by Application:

Smart Small Household Appliance

White Goods

Electric Tools

Sports and Leisure

Industrial

Automotive

Robots

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global BLDC Motor Control and Driver Chip market?

What factors are driving BLDC Motor Control and Driver Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do BLDC Motor Control and Driver Chip market opportunities vary by end market size?

How does BLDC Motor Control and Driver Chip break out by Type, by Application?

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