

# Global Gate Driver ICs for BLDC Motors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Gate Driver ICs for BLDC Motors market size is expected to reach \$ 480 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Gate Driver ICs for BLDC Motors are specialized integrated circuits designed to control the switching of power transistors in brushless DC motor systems, ensuring precise commutation, optimized efficiency, and robust protection under dynamic load conditions. Their advantages include fast response, low switching loss, enhanced thermal reliability, and simplified motor control integration. The capacity utilization rate in 2025 was 82%, and the industry's average gross margin was about 40%. In 2025, production totaled 385 million units, with an average price of USD 0.8 per unit. Upstream, key inputs consist of silicon wafers and photoresist, with representative suppliers including Shin-Etsu Chemical, SUMCO, GlobalWafers, and Ibiden. The midstream focuses on IC design, driver architecture, protection feature integration, layout optimization, verification, and testing to ensure operational stability and efficiency. Downstream applications include automotive, industrial automation, and home appliances, with key customers such as Toyota, BYD, Siemens, Haier, and LG Electronics.

The demand for Gate Driver ICs for BLDC Motors is closely linked to the widespread adoption of brushless motor applications in automotive, industrial, and consumer electronics sectors. Advances in motor efficiency, compact drive systems, and precision control requirements are increasing the importance of reliable, low-loss, and thermally robust driver ICs. As motor systems become more integrated and operate under higher dynamic loads, the need for ICs that can maintain stable switching performance while reducing energy loss and heat generation is growing. Manufacturers with strong design

capabilities and high-quality production processes are better positioned to support complex motor applications and long-term operational reliability.

This report studies the global Gate Driver ICs for BLDC Motors production, demand, key manufacturers, and key regions.

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

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

Global Gate Driver ICs for BLDC Motors total production and demand, 2021-2032, (Million Units)

Global Gate Driver ICs for BLDC Motors total production value, 2021-2032, (USD Million)

Global Gate Driver ICs for BLDC Motors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Gate Driver ICs for BLDC Motors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Gate Driver ICs for BLDC Motors domestic production, consumption, key domestic manufacturers and share

Global Gate Driver ICs for BLDC Motors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Gate Driver ICs for BLDC Motors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Gate Driver ICs for BLDC Motors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Gate Driver ICs for BLDC Motors 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 STMicroelectronics, Infineon, Rohm Semiconductor, ON Semiconductor, Microchip Technology, Renesas Electronics, NXP Semiconductors, Power Integrations, Skyworks, Analog Devices, 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 Gate Driver ICs for BLDC Motors 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 Gate Driver ICs for BLDC Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gate Driver ICs for BLDC Motors Market, Segmentation by Type:

12V

24V

Others

### Global Gate Driver ICs for BLDC Motors Market, Segmentation by Isolation Type:

Non-isolated

Isolated

### Global Gate Driver ICs for BLDC Motors Market, Segmentation by Package:

SOIC Package

TSSOP Package

Others

### Global Gate Driver ICs for BLDC Motors Market, Segmentation by Application:

Automotive

Industrial Automation

Home Appliances

Others

### Companies Profiled:

STMicroelectronics

Infineon

Rohm Semiconductor

ON Semiconductor

Microchip Technology

Renesas Electronics

NXP Semiconductors

Power Integrations

Skyworks

Analog Devices

Power Integrations

IXYS

Diodes

**Key Questions Answered:**

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

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