

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

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Abstracts

The global Motor Driver Chip market size is expected to reach \$ 8322 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Motor Driver Chips are semiconductor devices designed to control and regulate the electrical power supplied to electric motors by converting low-power control signals from microcontrollers or control circuits into high-current, high-voltage outputs capable of driving motor windings. These chips typically integrate functions such as gate driving for power transistors, current regulation, PWM control support, and protection features including overcurrent, overvoltage, and thermal shutdown to ensure safe and efficient motor operation. Motor driver chips are used to operate various types of motors, including brushed DC motors, brushless DC motors, and stepper motors, and are widely applied in consumer electronics, household appliances, automotive systems, industrial automation equipment, robotics, and other electromechanical systems. Motor driver chips typically range in price from about \$0.3 to \$10 per unit depending on integration level and application, with most mainstream devices used in consumer electronics and appliances generally priced around \$1.5–\$4 per chip in large-volume production.

The upstream supply chain of Motor Driver Chips primarily includes semiconductor raw materials and manufacturing resources such as silicon wafers, electronic chemicals, photomasks, packaging substrates, as well as semiconductor fabrication and packaging services provided by foundries and OSAT companies, along with design tools and IP cores used in chip development. The midstream consists of semiconductor companies that design and manufacture motor driver chips, integrating functions such as gate driving, current control, and protection circuits. Downstream applications are closely tied to industries that rely on electric motors, including consumer electronics and home appliances, automotive electronics such as electric pumps and fans, industrial

automation equipment, robotics, drones, power tools, and HVAC systems, where motor driver chips serve as key components enabling precise motor control, energy efficiency, and reliable system operation.

The Motor Driver Chip market is expected to experience sustained growth as electrification, automation, and energy-efficiency requirements continue to expand across multiple industries. The increasing adoption of electric motors in consumer electronics, household appliances, automotive systems, industrial automation equipment, robotics, and HVAC applications is driving steady demand for efficient motor control solutions. In particular, trends such as vehicle electrification, smart home appliances, factory automation, and the proliferation of drones and service robots are creating new opportunities for motor driver chip suppliers. At the same time, semiconductor manufacturers are developing higher-integration solutions that combine control logic, gate drivers, and protection functions to reduce system complexity and improve efficiency. As electric motors remain fundamental components in modern electromechanical systems, motor driver chips are expected to maintain strong long-term demand across both high-volume consumer markets and higher-value industrial and automotive applications.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Motor 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 NXP Semiconductors, STMicroelectronics, Texas Instruments, Onsemi, Infineon Technologies, Renesas Electronics, Allegro MicroSystems, Toshiba, Microchip Technology, Panasonic, 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 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 Driver Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Motor Driver Chip Market, Segmentation by Type:

Brushed DC Motor Driver IC

Brushless DC Motor Driver IC

Stepping Motor Driver IC

Global Motor Driver Chip Market, Segmentation by Integration Level:

Fully Discrete

Semi-Integrated

Fully Integrated

Global Motor Driver Chip Market, Segmentation by Motor Drive Topology:

Three-Phase

Multi-Phase

Others

Global Motor Driver Chip Market, Segmentation by Application:

Home Appliances

Power Tools

Automotive

Industrial Servo Systems

Others

Companies Profiled:

NXP Semiconductors

STMicroelectronics

Texas Instruments

Onsemi

Infineon Technologies

Renesas Electronics

Allegro MicroSystems

Toshiba

Microchip Technology

Panasonic

ROHM Semiconductor

Fortior Technology

Nuvoton

Nanjing Linko Semiconductor

SinoWealth

Huada Semiconductor

Silicon Labs

Silan

GigaDevice

Cmsemicon

Key Questions Answered:

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

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