

Global MOSFET Gate Drive IC 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 MOSFET Gate Drive IC market size was valued at US\$ 1720 million in 2025 and is forecast to a readjusted size of US\$ 2368 million by 2032 with a CAGR of 4.6% during review period.

A MOSFET Gate Driver IC is a power interface integrated circuit that translates low-power logic signals from controllers (MCU/DSP/PWM ICs) into high-current drive signals required to charge and discharge the MOSFET gate capacitance, enabling fast and efficient switching operation in power electronics systems. In 2025, global MOSFET Gate Driver IC production reached approximately 628.33 M Units. The MOSFET Gate Driver IC industry chain consists of upstream wafer fabrication (CMOS/BCD processes), semiconductor IP, and packaging/testing services.

The MOSFET Gate Driver IC market is a critical segment within power semiconductor ecosystem, belonging to analog and power management ICs. It serves as an essential interface between low-power control signals and high-power switching devices such as MOSFETs, IGBTs, and SiC devices, enabling efficient power conversion and high-speed switching operations. As demand for high-efficiency, high-power-density power electronics continues to rise in electric vehicles, photovoltaic inverters, energy storage systems, and industrial automation, the application scope of gate driver ICs is expanding rapidly, with a clear technology shift toward high-voltage isolation, high-speed switching, and compatibility with wide-bandgap devices (SiC and GaN).

This report is a detailed and comprehensive analysis for global MOSFET Gate Drive IC 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 MOSFET Gate Drive IC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MOSFET Gate Drive IC 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 MOSFET Gate Drive IC 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 MOSFET Gate Drive IC 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 MOSFET Gate Drive IC

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 MOSFET Gate Drive IC 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, ON Semiconductor, STMicroelectronics, ROHM Semiconductor, NXP Semiconductors, Texas Instruments, Microchip, Analog Devices (Linear Technology), Littelfuse, Chipown Microelectronics, etc.

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

Market Segmentation

MOSFET Gate Drive IC 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

Half-Bridge Driver Chip

Full Bridge Driver Chip

Three-Phase Drive Chip

Other

Market segment by Isolation Type

Non-isolated Driver IC

Opto-isolated Driver

Magnetic Isolation

Others

Market segment by Power Device Platform

Si MOSFET Driver IC

IGBT Driver IC

SiC MOSFET Driver IC

GaN HEMT Driver IC

Market segment by Voltage Rating

≤30V

30-100V

100-600V

600-1200V

1200V-1700V

>1700V

Market segment by Application

Household Appliances

Industrial Application

Electric Vehicle

ESS / BESS

Others

Major players covered

Infineon Technologies

ON Semiconductor

STMicroelectronics

ROHM Semiconductor

NXP Semiconductors

Texas Instruments

Microchip

Analog Devices (Linear Technology)

Littelfuse

Chipown Microelectronics

Huada Semiconductor

NOVOSENSE Microelectronics

Renesas Electronics

Shanghai Bright Power Semiconductor

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 MOSFET Gate Drive IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MOSFET Gate Drive IC, with price, sales quantity, revenue, and global market share of MOSFET Gate Drive IC from 2021 to 2026.

Chapter 3, the MOSFET Gate Drive IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MOSFET Gate Drive IC 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 MOSFET Gate Drive IC 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 MOSFET Gate Drive IC.

Chapter 14 and 15, to describe MOSFET Gate Drive IC sales channel, distributors, customers, research findings and conclusion.

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