

Global MOSFET Gate Drive IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MOSFET Gate Drive IC market size is expected to reach \$ 2368 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

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 studies the global MOSFET Gate Drive IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MOSFET Gate Drive IC 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 MOSFET Gate Drive IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MOSFET Gate Drive IC total production and demand, 2021-2032, (Million Units)

Global MOSFET Gate Drive IC total production value, 2021-2032, (USD Million)

Global MOSFET Gate Drive IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global MOSFET Gate Drive IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: MOSFET Gate Drive IC domestic production, consumption, key domestic manufacturers and share

Global MOSFET Gate Drive IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global MOSFET Gate Drive IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global MOSFET Gate Drive IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global MOSFET Gate Drive IC 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World MOSFET Gate Drive IC 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 MOSFET Gate Drive IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MOSFET Gate Drive IC Market, Segmentation by Type:

Half-Bridge Driver Chip

Full Bridge Driver Chip

Three-Phase Drive Chip

Other

Global MOSFET Gate Drive IC Market, Segmentation by Isolation Type:

Non-isolated Driver IC

Opto-isolated Driver

Magnetic Isolation

Others

Global MOSFET Gate Drive IC Market, Segmentation by Power Device Platform:

Si MOSFET Driver IC

IGBT Driver IC

SiC MOSFET Driver IC

GaN HEMT Driver IC

Global MOSFET Gate Drive IC Market, Segmentation by Voltage Rating:

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