

Global Low-Side MOSFET Drivers Market Growth 2026-2032

<https://marketpublishers.com/r/G3A1DBD48175EN.html>

Date: May 2026

Pages: 109

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

ID: G3A1DBD48175EN

Abstracts

The global Low-Side MOSFET Drivers market size is predicted to grow from US\$ 1428 million in 2025 to US\$ 2591 million in 2032; it is expected to grow at a CAGR of 8.9% from 2026 to 2032.

In 2025, global low-Side MOSFET Driver production reached approximately 1.8 billion units against an installed capacity of about 2.1 billion units, with average unit price of USD 0.8, enabling leading suppliers to sustain gross margins near 48%. Low-Side MOSFET Drivers are integrated circuits that provide the voltage and current amplification needed to rapidly and reliably switch a low-side N-channel MOSFET—i.e., a transistor whose source is tied to ground—in power-electronics systems such as motor drives, SMPS, DC-DC converters, LED drivers, and relay/solenoid controls; they translate logic-level PWM or digital control signals into high-current gate pulses, ensuring fast turn-on/turn-off, low switching losses, and robust protection against under-voltage, shoot-through, and EMI. The supply chain begins with silicon IP design and mixed-signal IC development by power-semiconductor firms, followed by wafer fabrication at internal or foundry fabs (typically on mature BCD/CMOS nodes), assembly and test at outsourced OSAT facilities, and packaging in SOT-23, SOIC, DFN, or QFN formats; finished drivers are sold through franchised distributors and direct OEM channels to power-module makers, inverter and PSU manufacturers, automotive Tier-1s, and industrial equipment OEMs, who integrate them alongside MOSFETs, controllers, and passives into end-use power stages across automotive, industrial automation, consumer electronics, and energy systems.

United States market for Low-Side MOSFET Drivers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Low-Side MOSFET Drivers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Low-Side MOSFET Drivers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Low-Side MOSFET Drivers players cover Infineon Technologies, Texas Instruments, ON Semiconductor, STMicroelectronics, NXP Semiconductors, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Low-Side MOSFET Drivers 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 Low-Side MOSFET Drivers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low-Side MOSFET Drivers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-Side MOSFET Drivers 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 Low-Side MOSFET Drivers.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-Side MOSFET Drivers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Non-inverting Input

Inverting Input

Dual Input

Segmentation by Current Capability:

Ultra-low Current (50–200 mA)

Medium Current (0.5–2 A)

High Current (>3 A)

Segmentation by Application:

Automotive

Industrial Automation

Energy Systems

Consumer Electronics

Telecom & Data Centers

Aerospace & Defense

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

Texas Instruments

ON Semiconductor

STMicroelectronics

NXP Semiconductors

Rohm Semiconductor

Diodes Incorporated

Analog Devices

Microchip Technology

Allegro MicroSystems

Renesas Electronics

Vishay Intertechnology

Power Integrations

Alpha & Omega Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-Side MOSFET Drivers market?

What factors are driving Low-Side MOSFET Drivers market growth, globally and by region?

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

How do Low-Side MOSFET Drivers market opportunities vary by end market size?

How does Low-Side MOSFET Drivers break out by Type, by Application?

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