

Global Low-Side MOSFET Drivers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GB523CF8DE3DEN.html>

Date: February 2026

Pages: 109

Price: US\$ 3,480.00 (Single User License)

ID: GB523CF8DE3DEN

Abstracts

According to our (Global Info Research) latest study, the global Low-Side MOSFET Drivers market size was valued at US\$ 1502 million in 2025 and is forecast to a readjusted size of US\$ 2647 million by 2032 with a CAGR of 8.4% during review period.

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.

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

Global Low-Side MOSFET Drivers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-Side MOSFET Drivers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-Side MOSFET Drivers market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Low-Side MOSFET Drivers
- 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 Low-Side MOSFET Drivers 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, Texas Instruments, ON Semiconductor, STMicroelectronics, NXP Semiconductors, Rohm Semiconductor, Diodes Incorporated, Analog Devices, Microchip Technology, Allegro MicroSystems, etc.

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

Market Segmentation

Low-Side MOSFET Drivers 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

Non-inverting Input

Inverting Input

Dual Input

Market segment by Current Capability

Ultra-low Current (50–200 mA)

Medium Current (0.5–2 A)

High Current (>3 A)

Market segment by Application

Automotive

Industrial Automation

Energy Systems

Consumer Electronics

Telecom & Data Centers

Aerospace & Defense

Others

Major players covered

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

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 Low-Side MOSFET Drivers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low-Side MOSFET Drivers, with price, sales quantity, revenue, and global market share of Low-Side MOSFET Drivers from 2021 to 2026.

Chapter 3, the Low-Side MOSFET Drivers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Low-Side MOSFET Drivers 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 Low-Side MOSFET Drivers 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 Low-Side MOSFET Drivers.

Chapter 14 and 15, to describe Low-Side MOSFET Drivers sales channel, distributors, customers, research findings and conclusion.

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