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Global Smart Motor Drivers Market Growth 2025-2031

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Abstracts

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The global Smart Motor Drivers market size is predicted to grow from US$ 2808 million in 2025 to US$ 3804 million in 2031; it is expected to grow at a CAGR of 5.2% from 2025 to 2031.

Smart motor drive is a chip integrated with CMOS control circuit and DMOS power device, which can be used with the main processor, motor and incremental encoder to form a complete motion control system. It can be used to drive inductive loads such as DC motors, stepper motors and relays. The motor driver chip is controlled by standard TTL logic level signal, with two enabling control terminals, which allow or forbid the device to work without the influence of input signals. There is a logic power input terminal, which enables the internal logic circuit to work under low voltage. Can be connected to the external detection resistance, the change of the feedback to the control circuit.

The global market for semiconductor was estimated at US$ 579 billion in the year 2022, is projected to US$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the

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emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US$142.1 billion, up 17.0% year-on-year, sales in Europe were US$53.8 billion, up 12.6% year-on-year, and sales in Japan were US$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US$336.2 billion, down 2.0% year-on-year.

LP Information, Inc. (LPI) ' newest research report, the “Smart Motor Drivers Industry Forecast” looks at past sales and reviews total world Smart Motor Drivers sales in 2024, providing a comprehensive analysis by region and market sector of projected Smart Motor Drivers sales for 2025 through 2031. With Smart Motor Drivers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Smart Motor Drivers industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Smart Motor 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 Smart Motor Drivers.

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This report presents a comprehensive overview, market shares, and growth opportunities of Smart Motor Drivers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

BDC

BLDC

STM

Gate Driver

Segmentation by Application:

Smart Home

Intelligent Three-ammeters (Water, Electricity and Gas Meter)

3D Printer

Massage Equip

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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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.

Texas Instruments

STMicroelectronics

ON Semiconductor

Infineon Technologies

ROHM Semiconductor

Allegro MicroSystems

Toshiba

Panasonic

NXP Semiconductors

Maxim Integrated

Microchip Technology

Diodes Incorporated

Melexis

New Japan Radio

Fortior Tech

ICOFCHINA

Dialog Semiconductor

H&M Semiconductor

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Trinamic

MPS

Diodes

Key Questions Addressed in this Report

What is the 10-year outlook for the global Smart Motor Drivers market?

What factors are driving Smart Motor Drivers market growth, globally and by region?

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

How do Smart Motor Drivers market opportunities vary by end market size?

How does Smart Motor Drivers break out by Type, by Application?

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