

Global Motor Control and Driver Chip Market Growth 2026-2032

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Abstracts

The global Motor Control and Driver Chip market size is predicted to grow from US\$ 8175 million in 2025 to US\$ 19452 million in 2032; it is expected to grow at a CAGR of 13.2% from 2026 to 2032.

Motor Control and Driver Chips refer to a set of semiconductor devices used to enable motor start/stop, speed regulation, direction control, commutation, and closed-loop control across various motor types, while driving and protecting the power stage switches. They typically include control chips (such as general-purpose MCUs, motor-control MCUs/DSPs, or dedicated control SoCs for PWM generation, control algorithms and parameter management, signal sensing and fault diagnostics, and communication interfaces) and driver chips (such as half-bridge/full-bridge drivers, three-phase gate drivers, or pre-drivers that drive MOSFETs/IGBTs and provide protections including over-current, under-voltage, over-temperature, and short-circuit). These chips are widely used in brushed DC, BLDC, stepper, PMSM/servo, AC induction, switched reluctance, and universal motor systems across home appliances, power tools, industrial automation, automotive motor systems, HVAC, and robotics. In 2025, global shipment volume was 5.969 billion units, with an average selling price of USD 1.4 per unit.

The motor control and driver chip industry covers the core semiconductor functions required for motor start/stop, speed regulation, direction control, commutation, and closed-loop operation. Demand is driven by higher electrification and control penetration across end systems, and by structural upgrades from fixed-speed operation to electronically controlled, high-efficiency, low-noise, and high-reliability solutions. Growth is increasingly powered by the expansion of electronically controlled motors from consumer appliances and power tools into industrial pumps and fans, HVAC, factory

automation, and automotive low-voltage motor and auxiliary electrification systems.

Regionally, Asia typically leads in volume-driven iteration thanks to dense consumer and appliance manufacturing clusters and strong supply-chain coordination, while North America and Europe are more anchored in industrial and automotive deployments with stricter requirements on EMC, reliability, and quality systems, resulting in longer design-in cycles but more stable product lifetimes. In terms of product structure, the market is commonly split into control chips and driver chips. Control chips include general-purpose MCUs, motor-control MCUs/DSPs, and dedicated control SoCs, where differentiation centers on PWM resources, analog peripherals such as ADCs and comparators, compute capability, and software ecosystems. Driver chips include half-bridge/full-bridge drivers and three-phase gate drivers or pre-drivers, where differentiation centers on high/low-side drive capability, protection features, and noise immunity. By application, consumer and light industrial segments prioritize cost and integration, industrial segments prioritize robustness across wide temperature/voltage ranges and long-term supply, and automotive segments prioritize functional safety, controlled failure behavior, and stringent validation consistency.

On cost structure, wafer fabrication and packaging and test are the primary direct cost components, while software and field-application engineering, IP and toolchain buildout, and qualification-related testing and quality maintenance materially shape profitability. Gross margin varies by mix: consumer-oriented control and driver chips often fall in the 30 to 45 percent range, while industrial and automotive programs can reach 40 to 55 percent after qualification, typically accompanied by higher R&D and quality expense intensity. From a manufacturing perspective, single-line capacity is often best described at the back-end bottleneck: for mainstream QFN, TSSOP, and SSOP packages, annual capacity per mature packaging and test line is commonly 80 to 250 million units, and a more concentrated platform SKU strategy accelerates yield ramp and strengthens unit-cost competitiveness.

The value chain spans EDA and IP, foundries, and OSATs upstream; chip designers and solution providers midstream; and motor manufacturers, OEMs, and automotive Tier-1 system integrators downstream. Competition reflects the advantages of global incumbents in portfolio breadth, industrial and automotive qualification systems, long-term supply assurance, and tooling ecosystems, while domestic players often compete through faster iteration, cost structure, and delivery responsiveness in consumer and general industrial segments. The market is shifting from single-device competition toward platform competition, where development environments and reference designs

for control chips, protection and EMC performance for driver chips, and reusable hardware-software solution libraries become decisive levers for share gains.

Key trends include faster adoption of integrated SoCs and higher-integration smart driver forms, broader deployment of FOC and sensorless control in mid-to-low-end use cases, and rising importance of low-EMI design, functional safety, and high-reliability packaging for automotive and premium industrial entry. At the same time, end markets continue to demand better efficiency, lower noise, and improved user experience, pushing more advanced control strategies and more comprehensive diagnostics and protection. Together with supply-chain resilience and localization priorities, these forces are expected to further increase concentration toward leading platforms and intensify competition at the ecosystem and toolchain level.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Motor Control and Driver Chip 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 Motor Control and Driver Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Motor Control and Driver Chip market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Control Chips

Driver Chips

Segmentation by Motor Type:

BLDC Motors

Brushed DC Motors

Others

Segmentation by Sales Channel:

Direct Sales

Distribution

Segmentation by Application:

Smart Small Household Appliance

White Goods

Electric Tools

Sports and Leisure

Industrial

Automotive

Robots

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 AG

Texas Instruments Incorporated

STMicroelectronics N.V.

NXP Semiconductors N.V.

ROHM Co., Ltd.

Fortior Technology (Shanghai) Co., Ltd.

Melexis NV

Allegro MicroSystems, Inc.

Elmos Semiconductor SE

Renesas Electronics Corporation

Toshiba Electronic Devices & Storage Corporation

Key Questions Addressed in this Report

What is the 10-year outlook for the global Motor Control and Driver Chip market?

What factors are driving Motor Control and Driver Chip market growth, globally and by region?

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

How do Motor Control and Driver Chip market opportunities vary by end market size?

How does Motor Control and Driver Chip break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Motor Control and Driver Chip Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Motor Control and Driver Chip by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Motor Control and Driver Chip by Country/Region, 2021, 2025 & 2032

2.2 Motor Control and Driver Chip Segment by Type

- 2.2.1 Control Chips
- 2.2.2 Driver Chips
- 2.2.3 Motor Control and Driver Chip Sales by Type
 - 2.2.3.1 Global Motor Control and Driver Chip Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Motor Control and Driver Chip Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Motor Control and Driver Chip Sale Price by Type (2021-2026)

2.3 Motor Control and Driver Chip Segment by Motor Type

- 2.3.1 BLDC Motors
- 2.3.2 Brushed DC Motors
- 2.3.3 Others
- 2.3.4 Motor Control and Driver Chip Sales by Motor Type
 - 2.3.4.1 Global Motor Control and Driver Chip Sales Market Share by Motor Type (2021-2026)
 - 2.3.4.2 Global Motor Control and Driver Chip Revenue and Market Share by Motor Type (2021-2026)

- 2.3.4.3 Global Motor Control and Driver Chip Sale Price by Motor Type (2021-2026)
- 2.4 Motor Control and Driver Chip Segment by Sales Channel
 - 2.4.1 Direct Sales
 - 2.4.2 Distribution
 - 2.4.3 Motor Control and Driver Chip Sales by Sales Channel
 - 2.4.3.1 Global Motor Control and Driver Chip Sales Market Share by Sales Channel (2021-2026)
 - 2.4.3.2 Global Motor Control and Driver Chip Revenue and Market Share by Sales Channel (2021-2026)
 - 2.4.3.3 Global Motor Control and Driver Chip Sale Price by Sales Channel (2021-2026)
- 2.5 Motor Control and Driver Chip Segment by Application
 - 2.5.1 Smart Small Household Appliance
 - 2.5.2 White Goods
 - 2.5.3 Electric Tools
 - 2.5.4 Sports and Leisure
 - 2.5.5 Industrial
 - 2.5.6 Automotive
 - 2.5.7 Robots
 - 2.5.8 Others
 - 2.5.9 Motor Control and Driver Chip Sales by Application
 - 2.5.9.1 Global Motor Control and Driver Chip Sale Market Share by Application (2021-2026)
 - 2.5.9.2 Global Motor Control and Driver Chip Revenue and Market Share by Application (2021-2026)
 - 2.5.9.3 Global Motor Control and Driver Chip Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Motor Control and Driver Chip Breakdown Data by Company
 - 3.1.1 Global Motor Control and Driver Chip Annual Sales by Company (2021-2026)
 - 3.1.2 Global Motor Control and Driver Chip Sales Market Share by Company (2021-2026)
- 3.2 Global Motor Control and Driver Chip Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Motor Control and Driver Chip Revenue by Company (2021-2026)
 - 3.2.2 Global Motor Control and Driver Chip Revenue Market Share by Company (2021-2026)
- 3.3 Global Motor Control and Driver Chip Sale Price by Company
- 3.4 Key Manufacturers Motor Control and Driver Chip Producing Area Distribution,

Sales Area, Product Type

3.4.1 Key Manufacturers Motor Control and Driver Chip Product Location Distribution

3.4.2 Players Motor Control and Driver Chip Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MOTOR CONTROL AND DRIVER CHIP BY GEOGRAPHIC REGION

4.1 World Historic Motor Control and Driver Chip Market Size by Geographic Region (2021-2026)

4.1.1 Global Motor Control and Driver Chip Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Motor Control and Driver Chip Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Motor Control and Driver Chip Market Size by Country/Region (2021-2026)

4.2.1 Global Motor Control and Driver Chip Annual Sales by Country/Region (2021-2026)

4.2.2 Global Motor Control and Driver Chip Annual Revenue by Country/Region (2021-2026)

4.3 Americas Motor Control and Driver Chip Sales Growth

4.4 APAC Motor Control and Driver Chip Sales Growth

4.5 Europe Motor Control and Driver Chip Sales Growth

4.6 Middle East & Africa Motor Control and Driver Chip Sales Growth

5 AMERICAS

5.1 Americas Motor Control and Driver Chip Sales by Country

5.1.1 Americas Motor Control and Driver Chip Sales by Country (2021-2026)

5.1.2 Americas Motor Control and Driver Chip Revenue by Country (2021-2026)

5.2 Americas Motor Control and Driver Chip Sales by Type (2021-2026)

5.3 Americas Motor Control and Driver Chip Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Motor Control and Driver Chip Sales by Region

6.1.1 APAC Motor Control and Driver Chip Sales by Region (2021-2026)

6.1.2 APAC Motor Control and Driver Chip Revenue by Region (2021-2026)

6.2 APAC Motor Control and Driver Chip Sales by Type (2021-2026)

6.3 APAC Motor Control and Driver Chip Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Motor Control and Driver Chip by Country

7.1.1 Europe Motor Control and Driver Chip Sales by Country (2021-2026)

7.1.2 Europe Motor Control and Driver Chip Revenue by Country (2021-2026)

7.2 Europe Motor Control and Driver Chip Sales by Type (2021-2026)

7.3 Europe Motor Control and Driver Chip Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Motor Control and Driver Chip by Country

8.1.1 Middle East & Africa Motor Control and Driver Chip Sales by Country (2021-2026)

8.1.2 Middle East & Africa Motor Control and Driver Chip Revenue by Country (2021-2026)

8.2 Middle East & Africa Motor Control and Driver Chip Sales by Type (2021-2026)

8.3 Middle East & Africa Motor Control and Driver Chip Sales by Application

(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Motor Control and Driver Chip

10.3 Manufacturing Process Analysis of Motor Control and Driver Chip

10.4 Industry Chain Structure of Motor Control and Driver Chip

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Motor Control and Driver Chip Distributors

11.3 Motor Control and Driver Chip Customer

12 WORLD FORECAST REVIEW FOR MOTOR CONTROL AND DRIVER CHIP BY GEOGRAPHIC REGION

12.1 Global Motor Control and Driver Chip Market Size Forecast by Region

12.1.1 Global Motor Control and Driver Chip Forecast by Region (2027-2032)

12.1.2 Global Motor Control and Driver Chip Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Motor Control and Driver Chip Forecast by Type (2027-2032)

12.7 Global Motor Control and Driver Chip Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Infineon Technologies AG

13.1.1 Infineon Technologies AG Company Information

13.1.2 Infineon Technologies AG Motor Control and Driver Chip Product Portfolios and Specifications

13.1.3 Infineon Technologies AG Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Infineon Technologies AG Main Business Overview

13.1.5 Infineon Technologies AG Latest Developments

13.2 Texas Instruments Incorporated

13.2.1 Texas Instruments Incorporated Company Information

13.2.2 Texas Instruments Incorporated Motor Control and Driver Chip Product Portfolios and Specifications

13.2.3 Texas Instruments Incorporated Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Texas Instruments Incorporated Main Business Overview

13.2.5 Texas Instruments Incorporated Latest Developments

13.3 STMicroelectronics N.V.

13.3.1 STMicroelectronics N.V. Company Information

13.3.2 STMicroelectronics N.V. Motor Control and Driver Chip Product Portfolios and Specifications

13.3.3 STMicroelectronics N.V. Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 STMicroelectronics N.V. Main Business Overview

13.3.5 STMicroelectronics N.V. Latest Developments

13.4 NXP Semiconductors N.V.

13.4.1 NXP Semiconductors N.V. Company Information

13.4.2 NXP Semiconductors N.V. Motor Control and Driver Chip Product Portfolios and Specifications

13.4.3 NXP Semiconductors N.V. Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 NXP Semiconductors N.V. Main Business Overview

13.4.5 NXP Semiconductors N.V. Latest Developments

13.5 ROHM Co., Ltd.

13.5.1 ROHM Co., Ltd. Company Information

13.5.2 ROHM Co., Ltd. Motor Control and Driver Chip Product Portfolios and Specifications

13.5.3 ROHM Co., Ltd. Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 ROHM Co., Ltd. Main Business Overview

13.5.5 ROHM Co., Ltd. Latest Developments

13.6 Fortior Technology (Shanghai) Co., Ltd.

13.6.1 Fortior Technology (Shanghai) Co., Ltd. Company Information

13.6.2 Fortior Technology (Shanghai) Co., Ltd. Motor Control and Driver Chip Product Portfolios and Specifications

13.6.3 Fortior Technology (Shanghai) Co., Ltd. Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Fortior Technology (Shanghai) Co., Ltd. Main Business Overview

13.6.5 Fortior Technology (Shanghai) Co., Ltd. Latest Developments

13.7 Melexis NV

13.7.1 Melexis NV Company Information

13.7.2 Melexis NV Motor Control and Driver Chip Product Portfolios and Specifications

13.7.3 Melexis NV Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Melexis NV Main Business Overview

13.7.5 Melexis NV Latest Developments

13.8 Allegro MicroSystems, Inc.

13.8.1 Allegro MicroSystems, Inc. Company Information

13.8.2 Allegro MicroSystems, Inc. Motor Control and Driver Chip Product Portfolios and Specifications

13.8.3 Allegro MicroSystems, Inc. Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Allegro MicroSystems, Inc. Main Business Overview

13.8.5 Allegro MicroSystems, Inc. Latest Developments

13.9 Elmos Semiconductor SE

13.9.1 Elmos Semiconductor SE Company Information

13.9.2 Elmos Semiconductor SE Motor Control and Driver Chip Product Portfolios and Specifications

13.9.3 Elmos Semiconductor SE Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Elmos Semiconductor SE Main Business Overview

13.9.5 Elmos Semiconductor SE Latest Developments

13.10 Renesas Electronics Corporation

13.10.1 Renesas Electronics Corporation Company Information

13.10.2 Renesas Electronics Corporation Motor Control and Driver Chip Product Portfolios and Specifications

13.10.3 Renesas Electronics Corporation Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Renesas Electronics Corporation Main Business Overview

13.10.5 Renesas Electronics Corporation Latest Developments

13.11 Toshiba Electronic Devices & Storage Corporation

13.11.1 Toshiba Electronic Devices & Storage Corporation Company Information

13.11.2 Toshiba Electronic Devices & Storage Corporation Motor Control and Driver Chip Product Portfolios and Specifications

13.11.3 Toshiba Electronic Devices & Storage Corporation Motor Control and Driver Chip Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Toshiba Electronic Devices & Storage Corporation Main Business Overview

13.11.5 Toshiba Electronic Devices & Storage Corporation Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Motor Control and Driver Chip Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Motor Control and Driver Chip Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Control Chips

Table 4. Major Players of Driver Chips

Table 5. Global Motor Control and Driver Chip Sales by Type (2021-2026) & (Million Units)

Table 6. Global Motor Control and Driver Chip Sales Market Share by Type (2021-2026)

Table 7. Global Motor Control and Driver Chip Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Motor Control and Driver Chip Revenue Market Share by Type (2021-2026)

Table 9. Global Motor Control and Driver Chip Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of BLDC Motors

Table 11. Major Players of Brushed DC Motors

Table 12. Major Players of Others

Table 13. Global Motor Control and Driver Chip Sales by Motor Type (2021-2026) & (Million Units)

Table 14. Global Motor Control and Driver Chip Sales Market Share by Motor Type (2021-2026)

Table 15. Global Motor Control and Driver Chip Revenue by Motor Type (2021-2026) & (\$ million)

Table 16. Global Motor Control and Driver Chip Revenue Market Share by Motor Type (2021-2026)

Table 17. Global Motor Control and Driver Chip Sale Price by Motor Type (2021-2026) & (US\$/Unit)

Table 18. Major Players of Direct Sales

Table 19. Major Players of Distribution

Table 20. Global Motor Control and Driver Chip Sales by Sales Channel (2021-2026) & (Million Units)

Table 21. Global Motor Control and Driver Chip Sales Market Share by Sales Channel (2021-2026)

Table 22. Global Motor Control and Driver Chip Revenue by Sales Channel

(2021-2026) & (\$ million)

Table 23. Global Motor Control and Driver Chip Revenue Market Share by Sales Channel (2021-2026)

Table 24. Global Motor Control and Driver Chip Sale Price by Sales Channel (2021-2026) & (US\$/Unit)

Table 25. Global Motor Control and Driver Chip Sale by Application (2021-2026) & (Million Units)

Table 26. Global Motor Control and Driver Chip Sale Market Share by Application (2021-2026)

Table 27. Global Motor Control and Driver Chip Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Motor Control and Driver Chip Revenue Market Share by Application (2021-2026)

Table 29. Global Motor Control and Driver Chip Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global Motor Control and Driver Chip Sales by Company (2021-2026) & (Million Units)

Table 31. Global Motor Control and Driver Chip Sales Market Share by Company (2021-2026)

Table 32. Global Motor Control and Driver Chip Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Motor Control and Driver Chip Revenue Market Share by Company (2021-2026)

Table 34. Global Motor Control and Driver Chip Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers Motor Control and Driver Chip Producing Area Distribution and Sales Area

Table 36. Players Motor Control and Driver Chip Products Offered

Table 37. Motor Control and Driver Chip Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Motor Control and Driver Chip Sales by Geographic Region (2021-2026) & (Million Units)

Table 41. Global Motor Control and Driver Chip Sales Market Share Geographic Region (2021-2026)

Table 42. Global Motor Control and Driver Chip Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Motor Control and Driver Chip Revenue Market Share by Geographic

Region (2021-2026)

Table 44. Global Motor Control and Driver Chip Sales by Country/Region (2021-2026) & (Million Units)

Table 45. Global Motor Control and Driver Chip Sales Market Share by Country/Region (2021-2026)

Table 46. Global Motor Control and Driver Chip Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Motor Control and Driver Chip Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Motor Control and Driver Chip Sales by Country (2021-2026) & (Million Units)

Table 49. Americas Motor Control and Driver Chip Sales Market Share by Country (2021-2026)

Table 50. Americas Motor Control and Driver Chip Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Motor Control and Driver Chip Sales by Type (2021-2026) & (Million Units)

Table 52. Americas Motor Control and Driver Chip Sales by Application (2021-2026) & (Million Units)

Table 53. APAC Motor Control and Driver Chip Sales by Region (2021-2026) & (Million Units)

Table 54. APAC Motor Control and Driver Chip Sales Market Share by Region (2021-2026)

Table 55. APAC Motor Control and Driver Chip Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Motor Control and Driver Chip Sales by Type (2021-2026) & (Million Units)

Table 57. APAC Motor Control and Driver Chip Sales by Application (2021-2026) & (Million Units)

Table 58. Europe Motor Control and Driver Chip Sales by Country (2021-2026) & (Million Units)

Table 59. Europe Motor Control and Driver Chip Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Motor Control and Driver Chip Sales by Type (2021-2026) & (Million Units)

Table 61. Europe Motor Control and Driver Chip Sales by Application (2021-2026) & (Million Units)

Table 62. Middle East & Africa Motor Control and Driver Chip Sales by Country (2021-2026) & (Million Units)

Table 63. Middle East & Africa Motor Control and Driver Chip Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Motor Control and Driver Chip Sales by Type (2021-2026) & (Million Units)

Table 65. Middle East & Africa Motor Control and Driver Chip Sales by Application (2021-2026) & (Million Units)

Table 66. Key Market Drivers & Growth Opportunities of Motor Control and Driver Chip

Table 67. Key Market Challenges & Risks of Motor Control and Driver Chip

Table 68. Key Industry Trends of Motor Control and Driver Chip

Table 69. Motor Control and Driver Chip Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Motor Control and Driver Chip Distributors List

Table 72. Motor Control and Driver Chip Customer List

Table 73. Global Motor Control and Driver Chip Sales Forecast by Region (2027-2032) & (Million Units)

Table 74. Global Motor Control and Driver Chip Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas Motor Control and Driver Chip Sales Forecast by Country (2027-2032) & (Million Units)

Table 76. Americas Motor Control and Driver Chip Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC Motor Control and Driver Chip Sales Forecast by Region (2027-2032) & (Million Units)

Table 78. APAC Motor Control and Driver Chip Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe Motor Control and Driver Chip Sales Forecast by Country (2027-2032) & (Million Units)

Table 80. Europe Motor Control and Driver Chip Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Motor Control and Driver Chip Sales Forecast by Country (2027-2032) & (Million Units)

Table 82. Middle East & Africa Motor Control and Driver Chip Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Motor Control and Driver Chip Sales Forecast by Type (2027-2032) & (Million Units)

Table 84. Global Motor Control and Driver Chip Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global Motor Control and Driver Chip Sales Forecast by Application (2027-2032) & (Million Units)

Table 86. Global Motor Control and Driver Chip Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Infineon Technologies AG Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 88. Infineon Technologies AG Motor Control and Driver Chip Product Portfolios and Specifications

Table 89. Infineon Technologies AG Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Infineon Technologies AG Main Business

Table 91. Infineon Technologies AG Latest Developments

Table 92. Texas Instruments Incorporated Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 93. Texas Instruments Incorporated Motor Control and Driver Chip Product Portfolios and Specifications

Table 94. Texas Instruments Incorporated Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Texas Instruments Incorporated Main Business

Table 96. Texas Instruments Incorporated Latest Developments

Table 97. STMicroelectronics N.V. Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 98. STMicroelectronics N.V. Motor Control and Driver Chip Product Portfolios and Specifications

Table 99. STMicroelectronics N.V. Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. STMicroelectronics N.V. Main Business

Table 101. STMicroelectronics N.V. Latest Developments

Table 102. NXP Semiconductors N.V. Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 103. NXP Semiconductors N.V. Motor Control and Driver Chip Product Portfolios and Specifications

Table 104. NXP Semiconductors N.V. Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. NXP Semiconductors N.V. Main Business

Table 106. NXP Semiconductors N.V. Latest Developments

Table 107. ROHM Co., Ltd. Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 108. ROHM Co., Ltd. Motor Control and Driver Chip Product Portfolios and Specifications

Table 109. ROHM Co., Ltd. Motor Control and Driver Chip Sales (Million Units),

Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. ROHM Co., Ltd. Main Business

Table 111. ROHM Co., Ltd. Latest Developments

Table 112. Fortior Technology (Shanghai) Co., Ltd. Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 113. Fortior Technology (Shanghai) Co., Ltd. Motor Control and Driver Chip Product Portfolios and Specifications

Table 114. Fortior Technology (Shanghai) Co., Ltd. Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Fortior Technology (Shanghai) Co., Ltd. Main Business

Table 116. Fortior Technology (Shanghai) Co., Ltd. Latest Developments

Table 117. Melexis NV Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 118. Melexis NV Motor Control and Driver Chip Product Portfolios and Specifications

Table 119. Melexis NV Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. Melexis NV Main Business

Table 121. Melexis NV Latest Developments

Table 122. Allegro MicroSystems, Inc. Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 123. Allegro MicroSystems, Inc. Motor Control and Driver Chip Product Portfolios and Specifications

Table 124. Allegro MicroSystems, Inc. Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Allegro MicroSystems, Inc. Main Business

Table 126. Allegro MicroSystems, Inc. Latest Developments

Table 127. Elmos Semiconductor SE Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 128. Elmos Semiconductor SE Motor Control and Driver Chip Product Portfolios and Specifications

Table 129. Elmos Semiconductor SE Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Elmos Semiconductor SE Main Business

Table 131. Elmos Semiconductor SE Latest Developments

Table 132. Renesas Electronics Corporation Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 133. Renesas Electronics Corporation Motor Control and Driver Chip Product Portfolios and Specifications

Table 134. Renesas Electronics Corporation Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Renesas Electronics Corporation Main Business

Table 136. Renesas Electronics Corporation Latest Developments

Table 137. Toshiba Electronic Devices & Storage Corporation Basic Information, Motor Control and Driver Chip Manufacturing Base, Sales Area and Its Competitors

Table 138. Toshiba Electronic Devices & Storage Corporation Motor Control and Driver Chip Product Portfolios and Specifications

Table 139. Toshiba Electronic Devices & Storage Corporation Motor Control and Driver Chip Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Toshiba Electronic Devices & Storage Corporation Main Business

Table 141. Toshiba Electronic Devices & Storage Corporation Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Motor Control and Driver Chip
- Figure 2. Motor Control and Driver Chip Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Motor Control and Driver Chip Sales Growth Rate 2021-2032 (Million Units)
- Figure 7. Global Motor Control and Driver Chip Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Motor Control and Driver Chip Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Motor Control and Driver Chip Sales Market Share by Country/Region (2025)
- Figure 10. Motor Control and Driver Chip Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Control Chips
- Figure 12. Product Picture of Driver Chips
- Figure 13. Global Motor Control and Driver Chip Sales Market Share by Type in 2026
- Figure 14. Global Motor Control and Driver Chip Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of BLDC Motors
- Figure 16. Product Picture of Brushed DC Motors
- Figure 17. Product Picture of Others
- Figure 18. Global Motor Control and Driver Chip Sales Market Share by Motor Type in 2026
- Figure 19. Global Motor Control and Driver Chip Revenue Market Share by Motor Type (2021-2026)
- Figure 20. Product Picture of Direct Sales
- Figure 21. Product Picture of Distribution
- Figure 22. Global Motor Control and Driver Chip Sales Market Share by Sales Channel in 2026
- Figure 23. Global Motor Control and Driver Chip Revenue Market Share by Sales Channel (2021-2026)
- Figure 24. Motor Control and Driver Chip Consumed in Smart Small Household Appliance
- Figure 25. Global Motor Control and Driver Chip Market: Smart Small Household

Appliance (2021-2026) & (Million Units)

Figure 26. Motor Control and Driver Chip Consumed in White Goods

Figure 27. Global Motor Control and Driver Chip Market: White Goods (2021-2026) & (Million Units)

Figure 28. Motor Control and Driver Chip Consumed in Electric Tools

Figure 29. Global Motor Control and Driver Chip Market: Electric Tools (2021-2026) & (Million Units)

Figure 30. Motor Control and Driver Chip Consumed in Sports and Leisure

Figure 31. Global Motor Control and Driver Chip Market: Sports and Leisure (2021-2026) & (Million Units)

Figure 32. Motor Control and Driver Chip Consumed in Industrial

Figure 33. Global Motor Control and Driver Chip Market: Industrial (2021-2026) & (Million Units)

Figure 34. Motor Control and Driver Chip Consumed in Automotive

Figure 35. Global Motor Control and Driver Chip Market: Automotive (2021-2026) & (Million Units)

Figure 36. Motor Control and Driver Chip Consumed in Robots

Figure 37. Global Motor Control and Driver Chip Market: Robots (2021-2026) & (Million Units)

Figure 38. Motor Control and Driver Chip Consumed in Others

Figure 39. Global Motor Control and Driver Chip Market: Others (2021-2026) & (Million Units)

Figure 40. Global Motor Control and Driver Chip Sale Market Share by Application (2025)

Figure 41. Global Motor Control and Driver Chip Revenue Market Share by Application in 2026

Figure 42. Motor Control and Driver Chip Sales by Company in 2026 (Million Units)

Figure 43. Global Motor Control and Driver Chip Sales Market Share by Company in 2026

Figure 44. Motor Control and Driver Chip Revenue by Company in 2026 (\$ millions)

Figure 45. Global Motor Control and Driver Chip Revenue Market Share by Company in 2026

Figure 46. Global Motor Control and Driver Chip Sales Market Share by Geographic Region (2021-2026)

Figure 47. Global Motor Control and Driver Chip Revenue Market Share by Geographic Region in 2026

Figure 48. Americas Motor Control and Driver Chip Sales 2021-2026 (Million Units)

Figure 49. Americas Motor Control and Driver Chip Revenue 2021-2026 (\$ millions)

Figure 50. APAC Motor Control and Driver Chip Sales 2021-2026 (Million Units)

- Figure 51. APAC Motor Control and Driver Chip Revenue 2021-2026 (\$ millions)
- Figure 52. Europe Motor Control and Driver Chip Sales 2021-2026 (Million Units)
- Figure 53. Europe Motor Control and Driver Chip Revenue 2021-2026 (\$ millions)
- Figure 54. Middle East & Africa Motor Control and Driver Chip Sales 2021-2026 (Million Units)
- Figure 55. Middle East & Africa Motor Control and Driver Chip Revenue 2021-2026 (\$ millions)
- Figure 56. Americas Motor Control and Driver Chip Sales Market Share by Country in 2026
- Figure 57. Americas Motor Control and Driver Chip Revenue Market Share by Country (2021-2026)
- Figure 58. Americas Motor Control and Driver Chip Sales Market Share by Type (2021-2026)
- Figure 59. Americas Motor Control and Driver Chip Sales Market Share by Application (2021-2026)
- Figure 60. United States Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Canada Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Mexico Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Brazil Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 64. APAC Motor Control and Driver Chip Sales Market Share by Region in 2026
- Figure 65. APAC Motor Control and Driver Chip Revenue Market Share by Region (2021-2026)
- Figure 66. APAC Motor Control and Driver Chip Sales Market Share by Type (2021-2026)
- Figure 67. APAC Motor Control and Driver Chip Sales Market Share by Application (2021-2026)
- Figure 68. China Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Japan Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 70. South Korea Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Southeast Asia Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 72. India Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Australia Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)

- Figure 74. China Taiwan Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Europe Motor Control and Driver Chip Sales Market Share by Country in 2026
- Figure 76. Europe Motor Control and Driver Chip Revenue Market Share by Country (2021-2026)
- Figure 77. Europe Motor Control and Driver Chip Sales Market Share by Type (2021-2026)
- Figure 78. Europe Motor Control and Driver Chip Sales Market Share by Application (2021-2026)
- Figure 79. Germany Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 80. France Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 81. UK Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Italy Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Russia Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Middle East & Africa Motor Control and Driver Chip Sales Market Share by Country (2021-2026)
- Figure 85. Middle East & Africa Motor Control and Driver Chip Sales Market Share by Type (2021-2026)
- Figure 86. Middle East & Africa Motor Control and Driver Chip Sales Market Share by Application (2021-2026)
- Figure 87. Egypt Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 88. South Africa Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Israel Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Turkey Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 91. GCC Countries Motor Control and Driver Chip Revenue Growth 2021-2026 (\$ millions)
- Figure 92. Manufacturing Cost Structure Analysis of Motor Control and Driver Chip in 2026
- Figure 93. Manufacturing Process Analysis of Motor Control and Driver Chip
- Figure 94. Industry Chain Structure of Motor Control and Driver Chip
- Figure 95. Channels of Distribution
- Figure 96. Global Motor Control and Driver Chip Sales Market Forecast by Region (2027-2032)

Figure 97. Global Motor Control and Driver Chip Revenue Market Share Forecast by Region (2027-2032)

Figure 98. Global Motor Control and Driver Chip Sales Market Share Forecast by Type (2027-2032)

Figure 99. Global Motor Control and Driver Chip Revenue Market Share Forecast by Type (2027-2032)

Figure 100. Global Motor Control and Driver Chip Sales Market Share Forecast by Application (2027-2032)

Figure 101. Global Motor Control and Driver Chip Revenue Market Share Forecast by Application (2027-2032)

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