

Global BLDC Motor ICs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global BLDC Motor ICs market size is expected to reach \$ 5235 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

BLDC Motor ICs (Brushless DC Motor Integrated Circuits) are specialized semiconductor devices used to control brushless DC motors, which are widely used in applications requiring high efficiency, reliability, and low maintenance. These ICs manage the electronic commutation of the motor, replacing traditional mechanical brushes and commutators. They integrate various functions such as speed control, direction control, power management, and fault detection, ensuring smooth and precise motor operation. BLDC Motor ICs are commonly used in electric vehicles, industrial automation, household appliances, and consumer electronics due to their ability to improve energy efficiency and extend the lifespan of motors. The price of an integrated, standard BLDC motor IC can be less than \$1. The upstream supply chain of BLDC Motor ICs mainly includes semiconductor raw materials and manufacturing services, such as silicon wafers, electronic chemicals, photomasks, and semiconductor fabrication and packaging provided by foundries and OSAT companies, as well as IP cores and EDA design tools used in chip development. The midstream consists of fabless semiconductor companies and integrated device manufacturers that design and produce motor control ICs, gate driver ICs, and integrated BLDC driver solutions. Downstream applications are closely tied to industries that widely adopt brushless DC motors, including consumer electronics and household appliances such as cooling fans and air conditioners, automotive systems including electric pumps and cooling systems, industrial automation equipment and robotics, as well as drones, power tools, and HVAC systems. These downstream sectors drive the demand for high-efficiency motor control solutions as energy efficiency, electrification, and automation trends continue to expand globally.

The BLDC Motor IC market is expected to maintain steady growth as the global shift toward energy-efficient electrification accelerates across multiple industries. Brushless DC motors are increasingly replacing traditional brushed motors due to their higher efficiency, longer lifespan, and lower maintenance requirements, driving demand for dedicated control and driver ICs. Growth is particularly supported by expanding applications in consumer electronics, home appliances, automotive electrification, industrial automation, robotics, and HVAC systems. At the same time, semiconductor vendors are developing higher-integration solutions that combine control logic, gate drivers, and protection functions to reduce system cost and design complexity. As automation, electrification, and intelligent equipment continue to expand globally, BLDC Motor ICs are expected to remain a fundamental component in motor drive systems, with strong long-term demand across both consumer and industrial markets.

This report studies the global BLDC Motor ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for BLDC Motor ICs 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 BLDC Motor ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global BLDC Motor ICs total production and demand, 2021-2032, (K Units)

Global BLDC Motor ICs total production value, 2021-2032, (USD Million)

Global BLDC Motor ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global BLDC Motor ICs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: BLDC Motor ICs domestic production, consumption, key domestic manufacturers and share

Global BLDC Motor ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global BLDC Motor ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global BLDC Motor ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global BLDC Motor ICs 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 NXP, STMicroelectronics, Microchip Technology, Infineon Technologies, Texas Instruments, Fortior Technology, Nuvoton, Toshiba, Nanjing Linko Semiconductor, SinoWealth, 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 BLDC Motor ICs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 BLDC Motor ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global BLDC Motor ICs Market, Segmentation by Type:

Motor Control IC

Motor Driver IC

Power Devices

Global BLDC Motor ICs Market, Segmentation by Integration Level:

Fully Discrete

Semi-Integrated

Fully Integrated

Global BLDC Motor ICs Market, Segmentation by Topology:

Three-Phase BLDC Motor ICs

Single-Phase BLDC Motor ICs

Others

Global BLDC Motor ICs Market, Segmentation by Application:

Home Appliances

Power Tools

Automotive

Industrial Servo Systems

Others

Companies Profiled:

NXP

STMicroelectronics

Microchip Technology

Infineon Technologies

Texas Instruments

Fortior Technology

Nuvoton

Toshiba

Nanjing Linko Semiconductor

SinoWealth

Huada Semiconductor

Silicon Labs

Silan

GigaDevice

Cmsemicon

Nations Technologies Incorporated

Holtek

Shanghai MindMotion Microelectronics

Energictek

Taixin Semiconductor

Guangdong Synwit

Key Questions Answered:

1. How big is the global BLDC Motor ICs market?
2. What is the demand of the global BLDC Motor ICs market?
3. What is the year over year growth of the global BLDC Motor ICs market?
4. What is the production and production value of the global BLDC Motor ICs market?
5. Who are the key producers in the global BLDC Motor ICs market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 BLDC Motor ICs Introduction
- 1.2 World BLDC Motor ICs Supply & Forecast
 - 1.2.1 World BLDC Motor ICs Production Value (2021 & 2025 & 2032)
 - 1.2.2 World BLDC Motor ICs Production (2021-2032)
 - 1.2.3 World BLDC Motor ICs Pricing Trends (2021-2032)
- 1.3 World BLDC Motor ICs Production by Region (Based on Production Site)
 - 1.3.1 World BLDC Motor ICs Production Value by Region (2021-2032)
 - 1.3.2 World BLDC Motor ICs Production by Region (2021-2032)
 - 1.3.3 World BLDC Motor ICs Average Price by Region (2021-2032)
 - 1.3.4 North America BLDC Motor ICs Production (2021-2032)
 - 1.3.5 Europe BLDC Motor ICs Production (2021-2032)
 - 1.3.6 China BLDC Motor ICs Production (2021-2032)
 - 1.3.7 Japan BLDC Motor ICs Production (2021-2032)
 - 1.3.8 South Korea BLDC Motor ICs Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 BLDC Motor ICs Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 BLDC Motor ICs Major Market Trends

2 DEMAND SUMMARY

- 2.1 World BLDC Motor ICs Demand (2021-2032)
- 2.2 World BLDC Motor ICs Consumption by Region
 - 2.2.1 World BLDC Motor ICs Consumption by Region (2021-2026)
 - 2.2.2 World BLDC Motor ICs Consumption Forecast by Region (2027-2032)
- 2.3 United States BLDC Motor ICs Consumption (2021-2032)
- 2.4 China BLDC Motor ICs Consumption (2021-2032)
- 2.5 Europe BLDC Motor ICs Consumption (2021-2032)
- 2.6 Japan BLDC Motor ICs Consumption (2021-2032)
- 2.7 South Korea BLDC Motor ICs Consumption (2021-2032)
- 2.8 ASEAN BLDC Motor ICs Consumption (2021-2032)
- 2.9 India BLDC Motor ICs Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World BLDC Motor ICs Production Value by Manufacturer (2021-2026)
- 3.2 World BLDC Motor ICs Production by Manufacturer (2021-2026)
- 3.3 World BLDC Motor ICs Average Price by Manufacturer (2021-2026)
- 3.4 BLDC Motor ICs Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global BLDC Motor ICs Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for BLDC Motor ICs in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for BLDC Motor ICs in 2025
- 3.6 BLDC Motor ICs Market: Overall Company Footprint Analysis
 - 3.6.1 BLDC Motor ICs Market: Region Footprint
 - 3.6.2 BLDC Motor ICs Market: Company Product Type Footprint
 - 3.6.3 BLDC Motor ICs Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: BLDC Motor ICs Production Value Comparison
 - 4.1.1 United States VS China: BLDC Motor ICs Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: BLDC Motor ICs Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: BLDC Motor ICs Production Comparison
 - 4.2.1 United States VS China: BLDC Motor ICs Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: BLDC Motor ICs Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: BLDC Motor ICs Consumption Comparison
 - 4.3.1 United States VS China: BLDC Motor ICs Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: BLDC Motor ICs Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based BLDC Motor ICs Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based BLDC Motor ICs Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers BLDC Motor ICs Production Value (2021-2026)

4.4.3 United States Based Manufacturers BLDC Motor ICs Production (2021-2026)

4.5 China Based BLDC Motor ICs Manufacturers and Market Share

4.5.1 China Based BLDC Motor ICs Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers BLDC Motor ICs Production Value (2021-2026)

4.5.3 China Based Manufacturers BLDC Motor ICs Production (2021-2026)

4.6 Rest of World Based BLDC Motor ICs Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based BLDC Motor ICs Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers BLDC Motor ICs Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers BLDC Motor ICs Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World BLDC Motor ICs Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Motor Control IC

5.2.2 Motor Driver IC

5.2.3 Power Devices

5.3 Market Segment by Type

5.3.1 World BLDC Motor ICs Production by Type (2021-2032)

5.3.2 World BLDC Motor ICs Production Value by Type (2021-2032)

5.3.3 World BLDC Motor ICs Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INTEGRATION LEVEL

6.1 World BLDC Motor ICs Market Size Overview by Integration Level: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Integration Level

6.2.1 Fully Discrete

6.2.2 Semi-Integrated

6.2.3 Fully Integrated

6.3 Market Segment by Integration Level

6.3.1 World BLDC Motor ICs Production by Integration Level (2021-2032)

6.3.2 World BLDC Motor ICs Production Value by Integration Level (2021-2032)

6.3.3 World BLDC Motor ICs Average Price by Integration Level (2021-2032)

7 MARKET ANALYSIS BY TOPOLOGY

7.1 World BLDC Motor ICs Market Size Overview by Topology: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Topology

7.2.1 Three-Phase BLDC Motor ICs

7.2.2 Single-Phase BLDC Motor ICs

7.2.3 Others

7.3 Market Segment by Topology

7.3.1 World BLDC Motor ICs Production by Topology (2021-2032)

7.3.2 World BLDC Motor ICs Production Value by Topology (2021-2032)

7.3.3 World BLDC Motor ICs Average Price by Topology (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World BLDC Motor ICs Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Home Appliances

8.2.2 Power Tools

8.2.3 Automotive

8.2.4 Industrial Servo Systems

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World BLDC Motor ICs Production by Application (2021-2032)

8.3.2 World BLDC Motor ICs Production Value by Application (2021-2032)

8.3.3 World BLDC Motor ICs Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 NXP

9.1.1 NXP Details

9.1.2 NXP Major Business

9.1.3 NXP BLDC Motor ICs Product and Services

9.1.4 NXP BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 NXP Recent Developments/Updates

9.1.6 NXP Competitive Strengths & Weaknesses

9.2 STMicroelectronics

- 9.2.1 STMicroelectronics Details
- 9.2.2 STMicroelectronics Major Business
- 9.2.3 STMicroelectronics BLDC Motor ICs Product and Services
- 9.2.4 STMicroelectronics BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 STMicroelectronics Recent Developments/Updates
- 9.2.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.3 Microchip Technology
 - 9.3.1 Microchip Technology Details
 - 9.3.2 Microchip Technology Major Business
 - 9.3.3 Microchip Technology BLDC Motor ICs Product and Services
 - 9.3.4 Microchip Technology BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Microchip Technology Recent Developments/Updates
 - 9.3.6 Microchip Technology Competitive Strengths & Weaknesses
- 9.4 Infineon Technologies
 - 9.4.1 Infineon Technologies Details
 - 9.4.2 Infineon Technologies Major Business
 - 9.4.3 Infineon Technologies BLDC Motor ICs Product and Services
 - 9.4.4 Infineon Technologies BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Infineon Technologies Recent Developments/Updates
 - 9.4.6 Infineon Technologies Competitive Strengths & Weaknesses
- 9.5 Texas Instruments
 - 9.5.1 Texas Instruments Details
 - 9.5.2 Texas Instruments Major Business
 - 9.5.3 Texas Instruments BLDC Motor ICs Product and Services
 - 9.5.4 Texas Instruments BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Texas Instruments Recent Developments/Updates
 - 9.5.6 Texas Instruments Competitive Strengths & Weaknesses
- 9.6 Fortior Technology
 - 9.6.1 Fortior Technology Details
 - 9.6.2 Fortior Technology Major Business
 - 9.6.3 Fortior Technology BLDC Motor ICs Product and Services
 - 9.6.4 Fortior Technology BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Fortior Technology Recent Developments/Updates
 - 9.6.6 Fortior Technology Competitive Strengths & Weaknesses

9.7 Nuvoton

9.7.1 Nuvoton Details

9.7.2 Nuvoton Major Business

9.7.3 Nuvoton BLDC Motor ICs Product and Services

9.7.4 Nuvoton BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Nuvoton Recent Developments/Updates

9.7.6 Nuvoton Competitive Strengths & Weaknesses

9.8 Toshiba

9.8.1 Toshiba Details

9.8.2 Toshiba Major Business

9.8.3 Toshiba BLDC Motor ICs Product and Services

9.8.4 Toshiba BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Toshiba Recent Developments/Updates

9.8.6 Toshiba Competitive Strengths & Weaknesses

9.9 Nanjing Linko Semiconductor

9.9.1 Nanjing Linko Semiconductor Details

9.9.2 Nanjing Linko Semiconductor Major Business

9.9.3 Nanjing Linko Semiconductor BLDC Motor ICs Product and Services

9.9.4 Nanjing Linko Semiconductor BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Nanjing Linko Semiconductor Recent Developments/Updates

9.9.6 Nanjing Linko Semiconductor Competitive Strengths & Weaknesses

9.10 SinoWealth

9.10.1 SinoWealth Details

9.10.2 SinoWealth Major Business

9.10.3 SinoWealth BLDC Motor ICs Product and Services

9.10.4 SinoWealth BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 SinoWealth Recent Developments/Updates

9.10.6 SinoWealth Competitive Strengths & Weaknesses

9.11 Huada Semiconductor

9.11.1 Huada Semiconductor Details

9.11.2 Huada Semiconductor Major Business

9.11.3 Huada Semiconductor BLDC Motor ICs Product and Services

9.11.4 Huada Semiconductor BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Huada Semiconductor Recent Developments/Updates

- 9.11.6 Huada Semiconductor Competitive Strengths & Weaknesses
- 9.12 Silicon Labs
 - 9.12.1 Silicon Labs Details
 - 9.12.2 Silicon Labs Major Business
 - 9.12.3 Silicon Labs BLDC Motor ICs Product and Services
 - 9.12.4 Silicon Labs BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Silicon Labs Recent Developments/Updates
 - 9.12.6 Silicon Labs Competitive Strengths & Weaknesses
- 9.13 Silan
 - 9.13.1 Silan Details
 - 9.13.2 Silan Major Business
 - 9.13.3 Silan BLDC Motor ICs Product and Services
 - 9.13.4 Silan BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Silan Recent Developments/Updates
 - 9.13.6 Silan Competitive Strengths & Weaknesses
- 9.14 GigaDevice
 - 9.14.1 GigaDevice Details
 - 9.14.2 GigaDevice Major Business
 - 9.14.3 GigaDevice BLDC Motor ICs Product and Services
 - 9.14.4 GigaDevice BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 GigaDevice Recent Developments/Updates
 - 9.14.6 GigaDevice Competitive Strengths & Weaknesses
- 9.15 Cmsemeicon
 - 9.15.1 Cmsemeicon Details
 - 9.15.2 Cmsemeicon Major Business
 - 9.15.3 Cmsemeicon BLDC Motor ICs Product and Services
 - 9.15.4 Cmsemeicon BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Cmsemeicon Recent Developments/Updates
 - 9.15.6 Cmsemeicon Competitive Strengths & Weaknesses
- 9.16 Nations Technologies Incorporated
 - 9.16.1 Nations Technologies Incorporated Details
 - 9.16.2 Nations Technologies Incorporated Major Business
 - 9.16.3 Nations Technologies Incorporated BLDC Motor ICs Product and Services
 - 9.16.4 Nations Technologies Incorporated BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.16.5 Nations Technologies Incorporated Recent Developments/Updates
- 9.16.6 Nations Technologies Incorporated Competitive Strengths & Weaknesses
- 9.17 Holtek
 - 9.17.1 Holtek Details
 - 9.17.2 Holtek Major Business
 - 9.17.3 Holtek BLDC Motor ICs Product and Services
 - 9.17.4 Holtek BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Holtek Recent Developments/Updates
 - 9.17.6 Holtek Competitive Strengths & Weaknesses
- 9.18 Shanghai MindMotion Microelectronics
 - 9.18.1 Shanghai MindMotion Microelectronics Details
 - 9.18.2 Shanghai MindMotion Microelectronics Major Business
 - 9.18.3 Shanghai MindMotion Microelectronics BLDC Motor ICs Product and Services
 - 9.18.4 Shanghai MindMotion Microelectronics BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Shanghai MindMotion Microelectronics Recent Developments/Updates
 - 9.18.6 Shanghai MindMotion Microelectronics Competitive Strengths & Weaknesses
- 9.19 Energictek
 - 9.19.1 Energictek Details
 - 9.19.2 Energictek Major Business
 - 9.19.3 Energictek BLDC Motor ICs Product and Services
 - 9.19.4 Energictek BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Energictek Recent Developments/Updates
 - 9.19.6 Energictek Competitive Strengths & Weaknesses
- 9.20 Taixin Semiconductor
 - 9.20.1 Taixin Semiconductor Details
 - 9.20.2 Taixin Semiconductor Major Business
 - 9.20.3 Taixin Semiconductor BLDC Motor ICs Product and Services
 - 9.20.4 Taixin Semiconductor BLDC Motor ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Taixin Semiconductor Recent Developments/Updates
 - 9.20.6 Taixin Semiconductor Competitive Strengths & Weaknesses
- 9.21 Guangdong Synwit
 - 9.21.1 Guangdong Synwit Details
 - 9.21.2 Guangdong Synwit Major Business
 - 9.21.3 Guangdong Synwit BLDC Motor ICs Product and Services
 - 9.21.4 Guangdong Synwit BLDC Motor ICs Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.21.5 Guangdong Synwit Recent Developments/Updates

9.21.6 Guangdong Synwit Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 BLDC Motor ICs Industry Chain

10.2 BLDC Motor ICs Upstream Analysis

10.2.1 BLDC Motor ICs Core Raw Materials

10.2.2 Main Manufacturers of BLDC Motor ICs Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 BLDC Motor ICs Production Mode

10.6 BLDC Motor ICs Procurement Model

10.7 BLDC Motor ICs Industry Sales Model and Sales Channels

10.7.1 BLDC Motor ICs Sales Model

10.7.2 BLDC Motor ICs Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World BLDC Motor ICs Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World BLDC Motor ICs Production Value by Region (2021-2026) & (USD Million)
- Table 3. World BLDC Motor ICs Production Value by Region (2027-2032) & (USD Million)
- Table 4. World BLDC Motor ICs Production Value Market Share by Region (2021-2026)
- Table 5. World BLDC Motor ICs Production Value Market Share by Region (2027-2032)
- Table 6. World BLDC Motor ICs Production by Region (2021-2026) & (K Units)
- Table 7. World BLDC Motor ICs Production by Region (2027-2032) & (K Units)
- Table 8. World BLDC Motor ICs Production Market Share by Region (2021-2026)
- Table 9. World BLDC Motor ICs Production Market Share by Region (2027-2032)
- Table 10. World BLDC Motor ICs Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World BLDC Motor ICs Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. BLDC Motor ICs Major Market Trends
- Table 13. World BLDC Motor ICs Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World BLDC Motor ICs Consumption by Region (2021-2026) & (K Units)
- Table 15. World BLDC Motor ICs Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World BLDC Motor ICs Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key BLDC Motor ICs Producers in 2025
- Table 18. World BLDC Motor ICs Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key BLDC Motor ICs Producers in 2025
- Table 20. World BLDC Motor ICs Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global BLDC Motor ICs Company Evaluation Quadrant
- Table 22. World BLDC Motor ICs Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and BLDC Motor ICs Production Site of Key Manufacturer
- Table 24. BLDC Motor ICs Market: Company Product Type Footprint
- Table 25. BLDC Motor ICs Market: Company Product Application Footprint
- Table 26. BLDC Motor ICs Competitive Factors
- Table 27. BLDC Motor ICs New Entrant and Capacity Expansion Plans

Table 28. BLDC Motor ICs Mergers & Acquisitions Activity

Table 29. United States VS China BLDC Motor ICs Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China BLDC Motor ICs Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China BLDC Motor ICs Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based BLDC Motor ICs Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers BLDC Motor ICs Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers BLDC Motor ICs Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers BLDC Motor ICs Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers BLDC Motor ICs Production Market Share (2021-2026)

Table 37. China Based BLDC Motor ICs Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers BLDC Motor ICs Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers BLDC Motor ICs Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers BLDC Motor ICs Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers BLDC Motor ICs Production Market Share (2021-2026)

Table 42. Rest of World Based BLDC Motor ICs Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers BLDC Motor ICs Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers BLDC Motor ICs Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers BLDC Motor ICs Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers BLDC Motor ICs Production Market Share (2021-2026)

Table 47. World BLDC Motor ICs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World BLDC Motor ICs Production by Type (2021-2026) & (K Units)

Table 49. World BLDC Motor ICs Production by Type (2027-2032) & (K Units)

Table 50. World BLDC Motor ICs Production Value by Type (2021-2026) & (USD Million)

Table 51. World BLDC Motor ICs Production Value by Type (2027-2032) & (USD Million)

Table 52. World BLDC Motor ICs Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World BLDC Motor ICs Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World BLDC Motor ICs Production Value by Integration Level, (USD Million), 2021 & 2025 & 2032

Table 55. World BLDC Motor ICs Production by Integration Level (2021-2026) & (K Units)

Table 56. World BLDC Motor ICs Production by Integration Level (2027-2032) & (K Units)

Table 57. World BLDC Motor ICs Production Value by Integration Level (2021-2026) & (USD Million)

Table 58. World BLDC Motor ICs Production Value by Integration Level (2027-2032) & (USD Million)

Table 59. World BLDC Motor ICs Average Price by Integration Level (2021-2026) & (US\$/Unit)

Table 60. World BLDC Motor ICs Average Price by Integration Level (2027-2032) & (US\$/Unit)

Table 61. World BLDC Motor ICs Production Value by Topology, (USD Million), 2021 & 2025 & 2032

Table 62. World BLDC Motor ICs Production by Topology (2021-2026) & (K Units)

Table 63. World BLDC Motor ICs Production by Topology (2027-2032) & (K Units)

Table 64. World BLDC Motor ICs Production Value by Topology (2021-2026) & (USD Million)

Table 65. World BLDC Motor ICs Production Value by Topology (2027-2032) & (USD Million)

Table 66. World BLDC Motor ICs Average Price by Topology (2021-2026) & (US\$/Unit)

Table 67. World BLDC Motor ICs Average Price by Topology (2027-2032) & (US\$/Unit)

Table 68. World BLDC Motor ICs Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World BLDC Motor ICs Production by Application (2021-2026) & (K Units)

Table 70. World BLDC Motor ICs Production by Application (2027-2032) & (K Units)

Table 71. World BLDC Motor ICs Production Value by Application (2021-2026) & (USD Million)

Table 72. World BLDC Motor ICs Production Value by Application (2027-2032) & (USD Million)

Million)

Table 73. World BLDC Motor ICs Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World BLDC Motor ICs Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. NXP Basic Information, Manufacturing Base and Competitors

Table 76. NXP Major Business

Table 77. NXP BLDC Motor ICs Product and Services

Table 78. NXP BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. NXP Recent Developments/Updates

Table 80. NXP Competitive Strengths & Weaknesses

Table 81. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 82. STMicroelectronics Major Business

Table 83. STMicroelectronics BLDC Motor ICs Product and Services

Table 84. STMicroelectronics BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. STMicroelectronics Recent Developments/Updates

Table 86. STMicroelectronics Competitive Strengths & Weaknesses

Table 87. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 88. Microchip Technology Major Business

Table 89. Microchip Technology BLDC Motor ICs Product and Services

Table 90. Microchip Technology BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Microchip Technology Recent Developments/Updates

Table 92. Microchip Technology Competitive Strengths & Weaknesses

Table 93. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 94. Infineon Technologies Major Business

Table 95. Infineon Technologies BLDC Motor ICs Product and Services

Table 96. Infineon Technologies BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Infineon Technologies Recent Developments/Updates

Table 98. Infineon Technologies Competitive Strengths & Weaknesses

Table 99. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 100. Texas Instruments Major Business

- Table 101. Texas Instruments BLDC Motor ICs Product and Services
- Table 102. Texas Instruments BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Texas Instruments Recent Developments/Updates
- Table 104. Texas Instruments Competitive Strengths & Weaknesses
- Table 105. Fortior Technology Basic Information, Manufacturing Base and Competitors
- Table 106. Fortior Technology Major Business
- Table 107. Fortior Technology BLDC Motor ICs Product and Services
- Table 108. Fortior Technology BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Fortior Technology Recent Developments/Updates
- Table 110. Fortior Technology Competitive Strengths & Weaknesses
- Table 111. Nuvoton Basic Information, Manufacturing Base and Competitors
- Table 112. Nuvoton Major Business
- Table 113. Nuvoton BLDC Motor ICs Product and Services
- Table 114. Nuvoton BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Nuvoton Recent Developments/Updates
- Table 116. Nuvoton Competitive Strengths & Weaknesses
- Table 117. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 118. Toshiba Major Business
- Table 119. Toshiba BLDC Motor ICs Product and Services
- Table 120. Toshiba BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Toshiba Recent Developments/Updates
- Table 122. Toshiba Competitive Strengths & Weaknesses
- Table 123. Nanjing Linko Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 124. Nanjing Linko Semiconductor Major Business
- Table 125. Nanjing Linko Semiconductor BLDC Motor ICs Product and Services
- Table 126. Nanjing Linko Semiconductor BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Nanjing Linko Semiconductor Recent Developments/Updates
- Table 128. Nanjing Linko Semiconductor Competitive Strengths & Weaknesses
- Table 129. SinoWealth Basic Information, Manufacturing Base and Competitors
- Table 130. SinoWealth Major Business
- Table 131. SinoWealth BLDC Motor ICs Product and Services
- Table 132. SinoWealth BLDC Motor ICs Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. SinoWealth Recent Developments/Updates

Table 134. SinoWealth Competitive Strengths & Weaknesses

Table 135. Huada Semiconductor Basic Information, Manufacturing Base and Competitors

Table 136. Huada Semiconductor Major Business

Table 137. Huada Semiconductor BLDC Motor ICs Product and Services

Table 138. Huada Semiconductor BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Huada Semiconductor Recent Developments/Updates

Table 140. Huada Semiconductor Competitive Strengths & Weaknesses

Table 141. Silicon Labs Basic Information, Manufacturing Base and Competitors

Table 142. Silicon Labs Major Business

Table 143. Silicon Labs BLDC Motor ICs Product and Services

Table 144. Silicon Labs BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Silicon Labs Recent Developments/Updates

Table 146. Silicon Labs Competitive Strengths & Weaknesses

Table 147. Silan Basic Information, Manufacturing Base and Competitors

Table 148. Silan Major Business

Table 149. Silan BLDC Motor ICs Product and Services

Table 150. Silan BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Silan Recent Developments/Updates

Table 152. Silan Competitive Strengths & Weaknesses

Table 153. GigaDevice Basic Information, Manufacturing Base and Competitors

Table 154. GigaDevice Major Business

Table 155. GigaDevice BLDC Motor ICs Product and Services

Table 156. GigaDevice BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. GigaDevice Recent Developments/Updates

Table 158. GigaDevice Competitive Strengths & Weaknesses

Table 159. Cmsemicon Basic Information, Manufacturing Base and Competitors

Table 160. Cmsemicon Major Business

Table 161. Cmsemicon BLDC Motor ICs Product and Services

Table 162. Cmsemicon BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Cmsemicon Recent Developments/Updates

- Table 164. Cmsecon Competitive Strengths & Weaknesses
- Table 165. Nations Technologies Incorporated Basic Information, Manufacturing Base and Competitors
- Table 166. Nations Technologies Incorporated Major Business
- Table 167. Nations Technologies Incorporated BLDC Motor ICs Product and Services
- Table 168. Nations Technologies Incorporated BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Nations Technologies Incorporated Recent Developments/Updates
- Table 170. Nations Technologies Incorporated Competitive Strengths & Weaknesses
- Table 171. Holtek Basic Information, Manufacturing Base and Competitors
- Table 172. Holtek Major Business
- Table 173. Holtek BLDC Motor ICs Product and Services
- Table 174. Holtek BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Holtek Recent Developments/Updates
- Table 176. Holtek Competitive Strengths & Weaknesses
- Table 177. Shanghai MindMotion Microelectronics Basic Information, Manufacturing Base and Competitors
- Table 178. Shanghai MindMotion Microelectronics Major Business
- Table 179. Shanghai MindMotion Microelectronics BLDC Motor ICs Product and Services
- Table 180. Shanghai MindMotion Microelectronics BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Shanghai MindMotion Microelectronics Recent Developments/Updates
- Table 182. Shanghai MindMotion Microelectronics Competitive Strengths & Weaknesses
- Table 183. Energictek Basic Information, Manufacturing Base and Competitors
- Table 184. Energictek Major Business
- Table 185. Energictek BLDC Motor ICs Product and Services
- Table 186. Energictek BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. Energictek Recent Developments/Updates
- Table 188. Energictek Competitive Strengths & Weaknesses
- Table 189. Taixin Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 190. Taixin Semiconductor Major Business
- Table 191. Taixin Semiconductor BLDC Motor ICs Product and Services

Table 192. Taixin Semiconductor BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Taixin Semiconductor Recent Developments/Updates

Table 194. Taixin Semiconductor Competitive Strengths & Weaknesses

Table 195. Guangdong Synwit Basic Information, Manufacturing Base and Competitors

Table 196. Guangdong Synwit Major Business

Table 197. Guangdong Synwit BLDC Motor ICs Product and Services

Table 198. Guangdong Synwit BLDC Motor ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Guangdong Synwit Recent Developments/Updates

Table 200. Guangdong Synwit Competitive Strengths & Weaknesses

Table 201. Global Key Players of BLDC Motor ICs Upstream (Raw Materials)

Table 202. Global BLDC Motor ICs Typical Customers

Table 203. BLDC Motor ICs Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. BLDC Motor ICs Picture

Figure 2. World BLDC Motor ICs Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World BLDC Motor ICs Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World BLDC Motor ICs Production (2021-2032) & (K Units)

Figure 5. World BLDC Motor ICs Average Price (2021-2032) & (US\$/Unit)

Figure 6. World BLDC Motor ICs Production Value Market Share by Region (2021-2032)

Figure 7. World BLDC Motor ICs Production Market Share by Region (2021-2032)

Figure 8. North America BLDC Motor ICs Production (2021-2032) & (K Units)

Figure 9. Europe BLDC Motor ICs Production (2021-2032) & (K Units)

Figure 10. China BLDC Motor ICs Production (2021-2032) & (K Units)

Figure 11. Japan BLDC Motor ICs Production (2021-2032) & (K Units)

Figure 12. South Korea BLDC Motor ICs Production (2021-2032) & (K Units)

Figure 13. BLDC Motor ICs Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 16. World BLDC Motor ICs Consumption Market Share by Region (2021-2032)

Figure 17. United States BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 18. China BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 19. Europe BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 20. Japan BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 21. South Korea BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 22. ASEAN BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 23. India BLDC Motor ICs Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of BLDC Motor ICs by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for BLDC Motor ICs Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for BLDC Motor ICs Markets in 2025

Figure 27. United States VS China: BLDC Motor ICs Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: BLDC Motor ICs Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: BLDC Motor ICs Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers BLDC Motor ICs Production Market Share 2025

Figure 31. China Based Manufacturers BLDC Motor ICs Production Market Share 2025

Figure 32. Rest of World Based Manufacturers BLDC Motor ICs Production Market Share 2025

Figure 33. World BLDC Motor ICs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World BLDC Motor ICs Production Value Market Share by Type in 2025

Figure 35. Motor Control IC

Figure 36. Motor Driver IC

Figure 37. Power Devices

Figure 38. World BLDC Motor ICs Production Market Share by Type (2021-2032)

Figure 39. World BLDC Motor ICs Production Value Market Share by Type (2021-2032)

Figure 40. World BLDC Motor ICs Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World BLDC Motor ICs Production Value by Integration Level, (USD Million), 2021 & 2025 & 2032

Figure 42. World BLDC Motor ICs Production Value Market Share by Integration Level in 2025

Figure 43. Fully Discrete

Figure 44. Semi-Integrated

Figure 45. Fully Integrated

Figure 46. World BLDC Motor ICs Production Market Share by Integration Level (2021-2032)

Figure 47. World BLDC Motor ICs Production Value Market Share by Integration Level (2021-2032)

Figure 48. World BLDC Motor ICs Average Price by Integration Level (2021-2032) & (US\$/Unit)

Figure 49. World BLDC Motor ICs Production Value by Topology, (USD Million), 2021 & 2025 & 2032

Figure 50. World BLDC Motor ICs Production Value Market Share by Topology in 2025

Figure 51. Three-Phase BLDC Motor ICs

Figure 52. Single-Phase BLDC Motor ICs

Figure 53. Others

Figure 54. World BLDC Motor ICs Production Market Share by Topology (2021-2032)

Figure 55. World BLDC Motor ICs Production Value Market Share by Topology (2021-2032)

Figure 56. World BLDC Motor ICs Average Price by Topology (2021-2032) & (US\$/Unit)

Figure 57. World BLDC Motor ICs Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World BLDC Motor ICs Production Value Market Share by Application in 2025

Figure 59. Home Appliances

Figure 60. Power Tools

Figure 61. Automotive

Figure 62. Industrial Servo Systems

Figure 63. Others

Figure 64. World BLDC Motor ICs Production Market Share by Application (2021-2032)

Figure 65. World BLDC Motor ICs Production Value Market Share by Application (2021-2032)

Figure 66. World BLDC Motor ICs Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. BLDC Motor ICs Industry Chain

Figure 68. BLDC Motor ICs Procurement Model

Figure 69. BLDC Motor ICs Sales Model

Figure 70. BLDC Motor ICs Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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