

Global Robotics ToF Driver IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robotics ToF Driver IC market size is expected to reach \$ 299 million by 2032, rising at a market growth of 24.2% CAGR during the forecast period (2026-2032).

Robotics ToF driver ICs are key semiconductor devices positioned at the emitter side of the 3D depth sensing chain. Their core role is to drive VCSELs or laser diodes with high peak current and high speed modulation, and to work together with ToF image sensors, SPAD receivers, or system algorithms to enable distance measurement, depth mapping, and object recognition. Based on official information from Sony, Infineon, AKM, EPC, and Awinic, this category is expanding from earlier short range 3D sensing in mobile and consumer electronics into higher reliability applications such as robotics, industrial vision, in cabin automotive sensing, and industrial safety. The main technical paradigms include dToF, iToF, and Pulse ToF, each requiring different pulse driving methods, modulation frequencies, eye safety controls, and levels of system integration. Core performance is typically reflected in drive current, modulation frequency, rise and fall speed, support for single junction or multi junction VCSELs, APC, temperature monitoring, fail safe protection, and compatibility with existing 3.3V supplies and interfaces such as LVDS and SPI. Typical customers include robot OEMs, AMR and industrial camera makers, automotive Tier 1 suppliers, 3D vision module vendors, and high end consumer electronics solution providers. Common delivery forms include standalone ToF emitter driver ICs as well as companion chips, evaluation boards, and reference designs closely tied to ToF sensors. The prevailing business model remains chip sales, with additional value created through module collaboration, automotive qualification, and system level support. Competition in this field is gradually shifting from single function drive capability toward system level miniaturization, reliability, and multi scenario adaptability.

A robotics ToF driver IC is not a generic power or interface chip. It is a core device that directly determines the emission efficiency, ranging accuracy, environmental robustness, and overall reliability of a 3D depth sensing system. Official product information shows that mainstream solutions have evolved from simple laser pulse output devices into system level components that integrate high speed modulation, peak current drive, eye safety control, fail safe protection, temperature monitoring, and interface compatibility within smaller packages. Sony positions its products for automotive and industrial ToF, Infineon tightly couples its VCSEL drivers with REAL3 imagers, Awinic integrates APC, LVDS reception, and temperature monitoring into a single chip, and EPC uses GaN to combine high frequency, high current, and miniaturization. This reveals two clear industry trends. First, emitter side devices are becoming more deeply coordinated with imagers, algorithms, and modules. Second, product evaluation is shifting from simply whether a driver can pulse a laser to a broader balance of modulation frequency, rise and fall times, EMC behavior, thermal stability, and safety redundancy. Competition is therefore moving from basic driver availability to the ability to deliver higher power density, lower BOM, stronger robustness, and easier mass production under stricter safety constraints. For robot makers, the driver IC is no longer just a supporting component, but a foundational capability that defines the sensing boundary of the whole machine.

On the demand side, growth in robotics ToF driver ICs does not depend on a single terminal market. Instead, it is supported by simultaneous expansion across industrial robots, mobile robots, in cabin automotive sensing, and advanced consumer 3D vision. EPC explicitly lists robotic vision and industrial safety as applications, Sony states that ToF sensing is expanding from mobile devices into automotive and industrial equipment, and onsemi and Nuvoton demonstrate viable iToF and Pulse ToF paths for near range depth sensing, obstacle detection, and spatial recognition. At the same time, the International Federation of Robotics reported 542,000 new industrial robot installations worldwide in 2024, with Asia accounting for 74 percent, indicating that the demand base driven by factory automation, warehousing, logistics, and intelligent manufacturing is still expanding. Because ToF remains practical in low light, short range, and structured space recognition, its penetration in grasping, obstacle avoidance, identity verification, cabin monitoring, and industrial safety zone detection still has room to rise. Under this multi market pull, robotics ToF driver ICs have room to move from the consumer chain into the industrial chain and from point components toward platform level support.

From a regional perspective, robotics ToF driver ICs currently show a cross regional supply structure and a multi center competitive pattern. Japan has the strongest

continuity in high end ToF and VCSEL driving, with Sony and AKM both offering clearly identifiable ToF related emitter driver solutions. Europe, represented by Infineon, has strong advantages in automotive grade and industrial grade integration. The United States, represented by EPC, differentiates through GaN based high frequency and high current pulsed driving. Mainland China, through Awinic, has already entered productization of ToF VCSEL drivers, while Korea and Taiwan mainly appear as supplementary suppliers or system solution providers. On the demand side, Asia remains the most important shipment and adoption region because of its dense robot deployment, complete consumer electronics chain, and expansion in automotive electronics, while Europe and North America are more concentrated in high reliability industrial, automotive, and safety applications. Over the next few years, this field is more likely to differentiate along automotive grade, industrial grade, miniaturization, and system level collaboration than to become rapidly standardized.

This report studies the global Robotics ToF Driver IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robotics ToF Driver IC 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 Robotics ToF Driver IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robotics ToF Driver IC total production and demand, 2021-2032, (Million Units)

Global Robotics ToF Driver IC total production value, 2021-2032, (USD Million)

Global Robotics ToF Driver IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Robotics ToF Driver IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Robotics ToF Driver IC domestic production, consumption, key domestic manufacturers and share

Global Robotics ToF Driver IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Robotics ToF Driver IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Robotics ToF Driver IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Robotics ToF Driver IC 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 Sony Semiconductor Solutions Corporation, Asahi Kasei Microdevices Corporation, Infineon Technologies AG, Efficient Power Conversion Corporation, Awinic Technology Co., Ltd., Renesas Electronics Corporation, onsemi, Nuvoton Technology Corporation, Dongwoon Anatech Co., Ltd., 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 Robotics ToF Driver IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Robotics ToF Driver IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robotics ToF Driver IC Market, Segmentation by Type:

dToF Driver IC

iToF Driver IC

Global Robotics ToF Driver IC Market, Segmentation by Primary End Market:

Robotics And Industrial Vision

Automotive In Cabin And Automotive Sensing

Consumer Electronics And 3D Cameras

Global Robotics ToF Driver IC Market, Segmentation by Peak Drive Current Tier:

?4A

>4A To 10A

>10A To 15A

Global Robotics ToF Driver IC Market, Segmentation by Application:

Industrial Robot

Service Robot

Companies Profiled:

Sony Semiconductor Solutions Corporation

Asahi Kasei Microdevices Corporation

Infineon Technologies AG

Efficient Power Conversion Corporation

Awinic Technology Co., Ltd.

Renesas Electronics Corporation

onsemi

Nuvoton Technology Corporation

Dongwoon Anatech Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Robotics ToF Driver IC Production Value by Manufacturer (2021-2026)
- 3.2 World Robotics ToF Driver IC Production by Manufacturer (2021-2026)
- 3.3 World Robotics ToF Driver IC Average Price by Manufacturer (2021-2026)
- 3.4 Robotics ToF Driver IC Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Robotics ToF Driver IC Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Robotics ToF Driver IC in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Robotics ToF Driver IC in 2025
- 3.6 Robotics ToF Driver IC Market: Overall Company Footprint Analysis
 - 3.6.1 Robotics ToF Driver IC Market: Region Footprint
 - 3.6.2 Robotics ToF Driver IC Market: Company Product Type Footprint
 - 3.6.3 Robotics ToF Driver IC 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: Robotics ToF Driver IC Production Value Comparison
 - 4.1.1 United States VS China: Robotics ToF Driver IC Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Robotics ToF Driver IC Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Robotics ToF Driver IC Production Comparison
 - 4.2.1 United States VS China: Robotics ToF Driver IC Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Robotics ToF Driver IC Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Robotics ToF Driver IC Consumption Comparison
 - 4.3.1 United States VS China: Robotics ToF Driver IC Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Robotics ToF Driver IC Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Robotics ToF Driver IC Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Robotics ToF Driver IC Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Robotics ToF Driver IC Production Value (2021-2026)

4.4.3 United States Based Manufacturers Robotics ToF Driver IC Production (2021-2026)

4.5 China Based Robotics ToF Driver IC Manufacturers and Market Share

4.5.1 China Based Robotics ToF Driver IC Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Robotics ToF Driver IC Production Value (2021-2026)

4.5.3 China Based Manufacturers Robotics ToF Driver IC Production (2021-2026)

4.6 Rest of World Based Robotics ToF Driver IC Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Robotics ToF Driver IC Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Robotics ToF Driver IC Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Robotics ToF Driver IC Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Robotics ToF Driver IC Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 dToF Driver IC

5.2.2 iToF Driver IC

5.3 Market Segment by Type

5.3.1 World Robotics ToF Driver IC Production by Type (2021-2032)

5.3.2 World Robotics ToF Driver IC Production Value by Type (2021-2032)

5.3.3 World Robotics ToF Driver IC Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRIMARY END MARKET

6.1 World Robotics ToF Driver IC Market Size Overview by Primary End Market: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Primary End Market

6.2.1 Robotics And Industrial Vision

6.2.2 Automotive In Cabin And Automotive Sensing

6.2.3 Consumer Electronics And 3D Cameras

6.3 Market Segment by Primary End Market

6.3.1 World Robotics ToF Driver IC Production by Primary End Market (2021-2032)

6.3.2 World Robotics ToF Driver IC Production Value by Primary End Market (2021-2032)

6.3.3 World Robotics ToF Driver IC Average Price by Primary End Market (2021-2032)

7 MARKET ANALYSIS BY PEAK DRIVE CURRENT TIER

7.1 World Robotics ToF Driver IC Market Size Overview by Peak Drive Current Tier: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Peak Drive Current Tier

7.2.1 ?4A

7.2.2 >4A To 10A

7.2.3 >10A To 15A

7.3 Market Segment by Peak Drive Current Tier

7.3.1 World Robotics ToF Driver IC Production by Peak Drive Current Tier (2021-2032)

7.3.2 World Robotics ToF Driver IC Production Value by Peak Drive Current Tier (2021-2032)

7.3.3 World Robotics ToF Driver IC Average Price by Peak Drive Current Tier (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Robotics ToF Driver IC Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Robot

8.2.2 Service Robot

8.3 Market Segment by Application

8.3.1 World Robotics ToF Driver IC Production by Application (2021-2032)

8.3.2 World Robotics ToF Driver IC Production Value by Application (2021-2032)

8.3.3 World Robotics ToF Driver IC Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sony Semiconductor Solutions Corporation

9.1.1 Sony Semiconductor Solutions Corporation Details

9.1.2 Sony Semiconductor Solutions Corporation Major Business

- 9.1.3 Sony Semiconductor Solutions Corporation Robotics ToF Driver IC Product and Services
- 9.1.4 Sony Semiconductor Solutions Corporation Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Sony Semiconductor Solutions Corporation Recent Developments/Updates
- 9.1.6 Sony Semiconductor Solutions Corporation Competitive Strengths & Weaknesses
- 9.2 Asahi Kasei Microdevices Corporation
 - 9.2.1 Asahi Kasei Microdevices Corporation Details
 - 9.2.2 Asahi Kasei Microdevices Corporation Major Business
 - 9.2.3 Asahi Kasei Microdevices Corporation Robotics ToF Driver IC Product and Services
 - 9.2.4 Asahi Kasei Microdevices Corporation Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Asahi Kasei Microdevices Corporation Recent Developments/Updates
 - 9.2.6 Asahi Kasei Microdevices Corporation Competitive Strengths & Weaknesses
- 9.3 Infineon Technologies AG
 - 9.3.1 Infineon Technologies AG Details
 - 9.3.2 Infineon Technologies AG Major Business
 - 9.3.3 Infineon Technologies AG Robotics ToF Driver IC Product and Services
 - 9.3.4 Infineon Technologies AG Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Infineon Technologies AG Recent Developments/Updates
 - 9.3.6 Infineon Technologies AG Competitive Strengths & Weaknesses
- 9.4 Efficient Power Conversion Corporation
 - 9.4.1 Efficient Power Conversion Corporation Details
 - 9.4.2 Efficient Power Conversion Corporation Major Business
 - 9.4.3 Efficient Power Conversion Corporation Robotics ToF Driver IC Product and Services
 - 9.4.4 Efficient Power Conversion Corporation Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Efficient Power Conversion Corporation Recent Developments/Updates
 - 9.4.6 Efficient Power Conversion Corporation Competitive Strengths & Weaknesses
- 9.5 Awinic Technology Co., Ltd.
 - 9.5.1 Awinic Technology Co., Ltd. Details
 - 9.5.2 Awinic Technology Co., Ltd. Major Business
 - 9.5.3 Awinic Technology Co., Ltd. Robotics ToF Driver IC Product and Services
 - 9.5.4 Awinic Technology Co., Ltd. Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Awinic Technology Co., Ltd. Recent Developments/Updates

9.5.6 Awinic Technology Co., Ltd. Competitive Strengths & Weaknesses

9.6 Renesas Electronics Corporation

9.6.1 Renesas Electronics Corporation Details

9.6.2 Renesas Electronics Corporation Major Business

9.6.3 Renesas Electronics Corporation Robotics ToF Driver IC Product and Services

9.6.4 Renesas Electronics Corporation Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Renesas Electronics Corporation Recent Developments/Updates

9.6.6 Renesas Electronics Corporation Competitive Strengths & Weaknesses

9.7 onsemi

9.7.1 onsemi Details

9.7.2 onsemi Major Business

9.7.3 onsemi Robotics ToF Driver IC Product and Services

9.7.4 onsemi Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 onsemi Recent Developments/Updates

9.7.6 onsemi Competitive Strengths & Weaknesses

9.8 Nuvoton Technology Corporation

9.8.1 Nuvoton Technology Corporation Details

9.8.2 Nuvoton Technology Corporation Major Business

9.8.3 Nuvoton Technology Corporation Robotics ToF Driver IC Product and Services

9.8.4 Nuvoton Technology Corporation Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Nuvoton Technology Corporation Recent Developments/Updates

9.8.6 Nuvoton Technology Corporation Competitive Strengths & Weaknesses

9.9 Dongwoon Anatech Co., Ltd.

9.9.1 Dongwoon Anatech Co., Ltd. Details

9.9.2 Dongwoon Anatech Co., Ltd. Major Business

9.9.3 Dongwoon Anatech Co., Ltd. Robotics ToF Driver IC Product and Services

9.9.4 Dongwoon Anatech Co., Ltd. Robotics ToF Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Dongwoon Anatech Co., Ltd. Recent Developments/Updates

9.9.6 Dongwoon Anatech Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Robotics ToF Driver IC Industry Chain

10.2 Robotics ToF Driver IC Upstream Analysis

10.2.1 Robotics ToF Driver IC Core Raw Materials

10.2.2 Main Manufacturers of Robotics ToF Driver IC Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Robotics ToF Driver IC Production Mode

10.6 Robotics ToF Driver IC Procurement Model

10.7 Robotics ToF Driver IC Industry Sales Model and Sales Channels

10.7.1 Robotics ToF Driver IC Sales Model

10.7.2 Robotics ToF Driver IC 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 Robotics ToF Driver IC Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Robotics ToF Driver IC Production Value by Region (2021-2026) & (USD Million)

Table 3. World Robotics ToF Driver IC Production Value by Region (2027-2032) & (USD Million)

Table 4. World Robotics ToF Driver IC Production Value Market Share by Region (2021-2026)

Table 5. World Robotics ToF Driver IC Production Value Market Share by Region (2027-2032)

Table 6. World Robotics ToF Driver IC Production by Region (2021-2026) & (Million Units)

Table 7. World Robotics ToF Driver IC Production by Region (2027-2032) & (Million Units)

Table 8. World Robotics ToF Driver IC Production Market Share by Region (2021-2026)

Table 9. World Robotics ToF Driver IC Production Market Share by Region (2027-2032)

Table 10. World Robotics ToF Driver IC Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Robotics ToF Driver IC Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Robotics ToF Driver IC Major Market Trends

Table 13. World Robotics ToF Driver IC Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Robotics ToF Driver IC Consumption by Region (2021-2026) & (Million Units)

Table 15. World Robotics ToF Driver IC Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Robotics ToF Driver IC Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Robotics ToF Driver IC Producers in 2025

Table 18. World Robotics ToF Driver IC Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Robotics ToF Driver IC Producers in 2025

Table 20. World Robotics ToF Driver IC Average Price by Manufacturer (2021-2026) &

(US\$/Unit)

Table 21. Global Robotics ToF Driver IC Company Evaluation Quadrant

Table 22. World Robotics ToF Driver IC Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Robotics ToF Driver IC Production Site of Key Manufacturer

Table 24. Robotics ToF Driver IC Market: Company Product Type Footprint

Table 25. Robotics ToF Driver IC Market: Company Product Application Footprint

Table 26. Robotics ToF Driver IC Competitive Factors

Table 27. Robotics ToF Driver IC New Entrant and Capacity Expansion Plans

Table 28. Robotics ToF Driver IC Mergers & Acquisitions Activity

Table 29. United States VS China Robotics ToF Driver IC Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Robotics ToF Driver IC Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Robotics ToF Driver IC Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Robotics ToF Driver IC Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Robotics ToF Driver IC Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Robotics ToF Driver IC Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Robotics ToF Driver IC Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Robotics ToF Driver IC Production Market Share (2021-2026)

Table 37. China Based Robotics ToF Driver IC Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Robotics ToF Driver IC Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Robotics ToF Driver IC Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Robotics ToF Driver IC Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Robotics ToF Driver IC Production Market Share (2021-2026)

Table 42. Rest of World Based Robotics ToF Driver IC Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Robotics ToF Driver IC Production Value,

(2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Robotics ToF Driver IC Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Robotics ToF Driver IC Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Robotics ToF Driver IC Production Market Share (2021-2026)

Table 47. World Robotics ToF Driver IC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Robotics ToF Driver IC Production by Type (2021-2026) & (Million Units)

Table 49. World Robotics ToF Driver IC Production by Type (2027-2032) & (Million Units)

Table 50. World Robotics ToF Driver IC Production Value by Type (2021-2026) & (USD Million)

Table 51. World Robotics ToF Driver IC Production Value by Type (2027-2032) & (USD Million)

Table 52. World Robotics ToF Driver IC Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Robotics ToF Driver IC Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Robotics ToF Driver IC Production Value by Primary End Market, (USD Million), 2021 & 2025 & 2032

Table 55. World Robotics ToF Driver IC Production by Primary End Market (2021-2026) & (Million Units)

Table 56. World Robotics ToF Driver IC Production by Primary End Market (2027-2032) & (Million Units)

Table 57. World Robotics ToF Driver IC Production Value by Primary End Market (2021-2026) & (USD Million)

Table 58. World Robotics ToF Driver IC Production Value by Primary End Market (2027-2032) & (USD Million)

Table 59. World Robotics ToF Driver IC Average Price by Primary End Market (2021-2026) & (US\$/Unit)

Table 60. World Robotics ToF Driver IC Average Price by Primary End Market (2027-2032) & (US\$/Unit)

Table 61. World Robotics ToF Driver IC Production Value by Peak Drive Current Tier, (USD Million), 2021 & 2025 & 2032

Table 62. World Robotics ToF Driver IC Production by Peak Drive Current Tier (2021-2026) & (Million Units)

Table 63. World Robotics ToF Driver IC Production by Peak Drive Current Tier (2027-2032) & (Million Units)

Table 64. World Robotics ToF Driver IC Production Value by Peak Drive Current Tier (2021-2026) & (USD Million)

Table 65. World Robotics ToF Driver IC Production Value by Peak Drive Current Tier (2027-2032) & (USD Million)

Table 66. World Robotics ToF Driver IC Average Price by Peak Drive Current Tier (2021-2026) & (US\$/Unit)

Table 67. World Robotics ToF Driver IC Average Price by Peak Drive Current Tier (2027-2032) & (US\$/Unit)

Table 68. World Robotics ToF Driver IC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Robotics ToF Driver IC Production by Application (2021-2026) & (Million Units)

Table 70. World Robotics ToF Driver IC Production by Application (2027-2032) & (Million Units)

Table 71. World Robotics ToF Driver IC Production Value by Application (2021-2026) & (USD Million)

Table 72. World Robotics ToF Driver IC Production Value by Application (2027-2032) & (USD Million)

Table 73. World Robotics ToF Driver IC Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Robotics ToF Driver IC Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Sony Semiconductor Solutions Corporation Basic Information, Manufacturing Base and Competitors

Table 76. Sony Semiconductor Solutions Corporation Major Business

Table 77. Sony Semiconductor Solutions Corporation Robotics ToF Driver IC Product and Services

Table 78. Sony Semiconductor Solutions Corporation Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Sony Semiconductor Solutions Corporation Recent Developments/Updates

Table 80. Sony Semiconductor Solutions Corporation Competitive Strengths & Weaknesses

Table 81. Asahi Kasei Microdevices Corporation Basic Information, Manufacturing Base and Competitors

Table 82. Asahi Kasei Microdevices Corporation Major Business

Table 83. Asahi Kasei Microdevices Corporation Robotics ToF Driver IC Product and

Services

Table 84. Asahi Kasei Microdevices Corporation Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Asahi Kasei Microdevices Corporation Recent Developments/Updates

Table 86. Asahi Kasei Microdevices Corporation Competitive Strengths & Weaknesses

Table 87. Infineon Technologies AG Basic Information, Manufacturing Base and Competitors

Table 88. Infineon Technologies AG Major Business

Table 89. Infineon Technologies AG Robotics ToF Driver IC Product and Services

Table 90. Infineon Technologies AG Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Infineon Technologies AG Recent Developments/Updates

Table 92. Infineon Technologies AG Competitive Strengths & Weaknesses

Table 93. Efficient Power Conversion Corporation Basic Information, Manufacturing Base and Competitors

Table 94. Efficient Power Conversion Corporation Major Business

Table 95. Efficient Power Conversion Corporation Robotics ToF Driver IC Product and Services

Table 96. Efficient Power Conversion Corporation Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Efficient Power Conversion Corporation Recent Developments/Updates

Table 98. Efficient Power Conversion Corporation Competitive Strengths & Weaknesses

Table 99. Awinic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Awinic Technology Co., Ltd. Major Business

Table 101. Awinic Technology Co., Ltd. Robotics ToF Driver IC Product and Services

Table 102. Awinic Technology Co., Ltd. Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Awinic Technology Co., Ltd. Recent Developments/Updates

Table 104. Awinic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 105. Renesas Electronics Corporation Basic Information, Manufacturing Base and Competitors

Table 106. Renesas Electronics Corporation Major Business

Table 107. Renesas Electronics Corporation Robotics ToF Driver IC Product and

Services

Table 108. Renesas Electronics Corporation Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Renesas Electronics Corporation Recent Developments/Updates

Table 110. Renesas Electronics Corporation Competitive Strengths & Weaknesses

Table 111. onsemi Basic Information, Manufacturing Base and Competitors

Table 112. onsemi Major Business

Table 113. onsemi Robotics ToF Driver IC Product and Services

Table 114. onsemi Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. onsemi Recent Developments/Updates

Table 116. onsemi Competitive Strengths & Weaknesses

Table 117. Nuvoton Technology Corporation Basic Information, Manufacturing Base and Competitors

Table 118. Nuvoton Technology Corporation Major Business

Table 119. Nuvoton Technology Corporation Robotics ToF Driver IC Product and Services

Table 120. Nuvoton Technology Corporation Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Nuvoton Technology Corporation Recent Developments/Updates

Table 122. Nuvoton Technology Corporation Competitive Strengths & Weaknesses

Table 123. Dongwoon Anatech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Dongwoon Anatech Co., Ltd. Major Business

Table 125. Dongwoon Anatech Co., Ltd. Robotics ToF Driver IC Product and Services

Table 126. Dongwoon Anatech Co., Ltd. Robotics ToF Driver IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Dongwoon Anatech Co., Ltd. Recent Developments/Updates

Table 128. Dongwoon Anatech Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Global Key Players of Robotics ToF Driver IC Upstream (Raw Materials)

Table 130. Global Robotics ToF Driver IC Typical Customers

Table 131. Robotics ToF Driver IC Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Robotics ToF Driver IC Picture

Figure 2. World Robotics ToF Driver IC Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Robotics ToF Driver IC Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Robotics ToF Driver IC Production (2021-2032) & (Million Units)

Figure 5. World Robotics ToF Driver IC Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Robotics ToF Driver IC Production Value Market Share by Region (2021-2032)

Figure 7. World Robotics ToF Driver IC Production Market Share by Region (2021-2032)

Figure 8. North America Robotics ToF Driver IC Production (2021-2032) & (Million Units)

Figure 9. Europe Robotics ToF Driver IC Production (2021-2032) & (Million Units)

Figure 10. China Robotics ToF Driver IC Production (2021-2032) & (Million Units)

Figure 11. Japan Robotics ToF Driver IC Production (2021-2032) & (Million Units)

Figure 12. South Korea Robotics ToF Driver IC Production (2021-2032) & (Million Units)

Figure 13. China Taiwan Robotics ToF Driver IC Production (2021-2032) & (Million Units)

Figure 14. Robotics ToF Driver IC Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 17. World Robotics ToF Driver IC Consumption Market Share by Region (2021-2032)

Figure 18. United States Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 19. China Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 20. Europe Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 21. Japan Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 22. South Korea Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 23. ASEAN Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 24. India Robotics ToF Driver IC Consumption (2021-2032) & (Million Units)

Figure 25. Producer Shipments of Robotics ToF Driver IC by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Robotics ToF Driver IC Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Robotics ToF Driver IC Markets in 2025

Figure 28. United States VS China: Robotics ToF Driver IC Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Robotics ToF Driver IC Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Robotics ToF Driver IC Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Robotics ToF Driver IC Production Market Share 2025

Figure 32. China Based Manufacturers Robotics ToF Driver IC Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Robotics ToF Driver IC Production Market Share 2025

Figure 34. World Robotics ToF Driver IC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Robotics ToF Driver IC Production Value Market Share by Type in 2025

Figure 36. dToF Driver IC

Figure 37. iToF Driver IC

Figure 38. World Robotics ToF Driver IC Production Market Share by Type (2021-2032)

Figure 39. World Robotics ToF Driver IC Production Value Market Share by Type (2021-2032)

Figure 40. World Robotics ToF Driver IC Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Robotics ToF Driver IC Production Value by Primary End Market, (USD Million), 2021 & 2025 & 2032

Figure 42. World Robotics ToF Driver IC Production Value Market Share by Primary End Market in 2025

Figure 43. Robotics And Industrial Vision

Figure 44. Automotive In Cabin And Automotive Sensing

Figure 45. Consumer Electronics And 3D Cameras

Figure 46. World Robotics ToF Driver IC Production Market Share by Primary End Market (2021-2032)

Figure 47. World Robotics ToF Driver IC Production Value Market Share by Primary End Market (2021-2032)

Figure 48. World Robotics ToF Driver IC Average Price by Primary End Market

(2021-2032) & (US\$/Unit)

Figure 49. World Robotics ToF Driver IC Production Value by Peak Drive Current Tier, (USD Million), 2021 & 2025 & 2032

Figure 50. World Robotics ToF Driver IC Production Value Market Share by Peak Drive Current Tier in 2025

Figure 51. >4A

Figure 52. >4A To 10A

Figure 53. >10A To 15A

Figure 54. World Robotics ToF Driver IC Production Market Share by Peak Drive Current Tier (2021-2032)

Figure 55. World Robotics ToF Driver IC Production Value Market Share by Peak Drive Current Tier (2021-2032)

Figure 56. World Robotics ToF Driver IC Average Price by Peak Drive Current Tier (2021-2032) & (US\$/Unit)

Figure 57. World Robotics ToF Driver IC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Robotics ToF Driver IC Production Value Market Share by Application in 2025

Figure 59. Industrial Robot

Figure 60. Service Robot

Figure 61. World Robotics ToF Driver IC Production Market Share by Application (2021-2032)

Figure 62. World Robotics ToF Driver IC Production Value Market Share by Application (2021-2032)

Figure 63. World Robotics ToF Driver IC Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Robotics ToF Driver IC Industry Chain

Figure 65. Robotics ToF Driver IC Procurement Model

Figure 66. Robotics ToF Driver IC Sales Model

Figure 67. Robotics ToF Driver IC Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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