

Global Semiconductor Device Market Size Study & Forecast, by Device Type (Discrete Semiconductors, Optoelectronics, Sensors, Integrated Circuits), By End-user Vertical (Automotive, Communication (Wired and Wireless), Consumer, Industrial, Computing/Data Storage), and Regional Analysis, 2023-2030

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Abstracts

Global Semiconductor Device Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. A semiconductor device is an electronic component that operates by utilizing the electrical properties of a semiconductor material, such as gallium arsenide, germanium, or silicon. Materials classified as semiconductors are unable to transmit electricity as well as insulators or conductors does. Their conductivity is in the middle of these two ranges. due to their special ability to be precisely controlled, they are essential components of modern electronics. Moreover, the growing demand for consumer electronics, rising deployment of industrial automation solutions and the adoption of IoT technologies, and growing adoption of technologies like IoT and Ai are anticipated to create the lucrative demand for the market during forecast period 2023-2030.

Additionally, the proliferation of smartphones, tablets, laptops, smart TVs, and other consumer electronic devices continues to drive the demand for semiconductor devices such as microprocessors, memory chips, sensors, and display drivers. According to the India Brand Equity Foundation, the manufacturing of electronic hardware in the country surged to USD 60.13 billion in 2018. Projections indicate that by 2024, the demand for electronic hardware in India is anticipated to reach USD 400 billion. Also, The National Investment Promotion and Facilitation Agency of the Indian government further notes

that the domestic market for electronic gadgets is poised to surpass USD 300 billion by 2026. As a result, the growing electronics demand is anticipated to support the market growth. Moreover, the increased deployment of 5G, and rising integration of semiconductor devices in automotive is anticipated to create the lucrative opportunity for the market. However, the supply chain disruptions stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Semiconductor Device Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the rising adoption of IoT and AI technologies, increasing demand for electric vehicles (EVs), and evolution of communication technologies such as 5G networks, Wi-Fi 6, and satellite communication drives. According to International Energy Agency (IEA), in 2018, the number of electric cars sold in United States was 0.4 million and the number reached 1.6 million in 2023. As a result, the growing demand for the electric vehicles in the country is anticipated to create the lucrative opportunity for the market during forecast period 2023-2030. Whereas, the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the rising demand for electronics, expanding automotive industry, and supportive government support and policies.

Major market players included in this report are:

Intel Corporation

Nvidia Corporation

Kyocera Corporation

Qualcomm Incorporated

STMicroelectronics NV

Micron Technology Inc.

Xilinx Inc.

NXP Semiconductors NV

Toshiba Corporation

Texas Instruments Inc.

Recent Developments in the Market:

In September 2022, STMicroelectronics has unveiled its latest innovation, the P6 automotive MCU designed specifically for integration into EV platforms. With a focus on upcoming electrified drivetrains, this cutting-edge MCU is tailored to support domain-oriented architectures and facilitate over-the-air updates. This forward-looking solution sets the stage for the next evolution of electric vehicles, providing robust system integration and adaptability to meet the demands of tomorrow's automotive landscape.

Global Semiconductor Device Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Device Type, End-user Vertical, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Device Type:

Discrete Semiconductors

Optoelectronics

Sensors

Integrated Circuits

By End-user Vertical:

Automotive

Communication (Wired and Wireless)

Consumer

Industrial

Computing/Data Storage

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Semiconductor Device Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Semiconductor Device Market, by Device Type, 2020-2030 (USD Billion)
 - 1.2.3. Semiconductor Device Market, by End-user Vertical, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL SEMICONDUCTOR DEVICE MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL SEMICONDUCTOR DEVICE MARKET DYNAMICS

- 3.1. Semiconductor Device Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Growing for consumer electronics
 - 3.1.1.2. Rising deployment of industrial automation solutions
 - 3.1.1.3. Growing adoption of technologies like IoT and Ai
 - 3.1.2. Market Challenges
 - 3.1.2.1. Supply chain disruptions
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Increased deployment of 5G
 - 3.1.3.2. Rising integration of semiconductor devices in automotive

CHAPTER 4. GLOBAL SEMICONDUCTOR DEVICE MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SEMICONDUCTOR DEVICE MARKET, BY DEVICE TYPE

- 5.1. Market Snapshot
- 5.2. Global Semiconductor Device Market by Device Type, Performance - Potential Analysis
- 5.3. Global Semiconductor Device Market Estimates & Forecasts by Device Type 2020-2030 (USD Billion)
- 5.4. Semiconductor Device Market, Sub Segment Analysis
 - 5.4.1. Discrete Semiconductors
 - 5.4.2. Optoelectronics
 - 5.4.3. Sensors
 - 5.4.4. Integrated Circuits

CHAPTER 6. GLOBAL SEMICONDUCTOR DEVICE MARKET, BY END-USER VERTICAL

- 6.1. Market Snapshot
- 6.2. Global Semiconductor Device Market by End-user Vertical, Performance - Potential Analysis

6.3. Global Semiconductor Device Market Estimates & Forecasts by End-user Vertical
2020-2030 (USD Billion)

6.4. Semiconductor Device Market, Sub Segment Analysis

6.4.1. Automotive

6.4.2. Communication (Wired and Wireless)

6.4.3. Consumer

6.4.4. Industrial

6.4.5. Computing/Data Storage

CHAPTER 7. GLOBAL SEMICONDUCTOR DEVICE MARKET, REGIONAL ANALYSIS

7.1. Top Leading Countries

7.2. Top Emerging Countries

7.3. Semiconductor Device Market, Regional Market Snapshot

7.4. North America Semiconductor Device Market

7.4.1. U.S. Semiconductor Device Market

7.4.1.1. Device Type breakdown estimates & forecasts, 2020-2030

7.4.1.2. End-user Vertical breakdown estimates & forecasts, 2020-2030

7.4.2. Canada Semiconductor Device Market

7.5. Europe Semiconductor Device Market Snapshot

7.5.1. U.K. Semiconductor Device Market

7.5.2. Germany Semiconductor Device Market

7.5.3. France Semiconductor Device Market

7.5.4. Spain Semiconductor Device Market

7.5.5. Italy Semiconductor Device Market

7.5.6. Rest of Europe Semiconductor Device Market

7.6. Asia-Pacific Semiconductor Device Market Snapshot

7.6.1. China Semiconductor Device Market

7.6.2. India Semiconductor Device Market

7.6.3. Japan Semiconductor Device Market

7.6.4. Australia Semiconductor Device Market

7.6.5. South Korea Semiconductor Device Market

7.6.6. Rest of Asia Pacific Semiconductor Device Market

7.7. Latin America Semiconductor Device Market Snapshot

7.7.1. Brazil Semiconductor Device Market

7.7.2. Mexico Semiconductor Device Market

7.8. Middle East & Africa Semiconductor Device Market

7.8.1. Saudi Arabia Semiconductor Device Market

7.8.2. South Africa Semiconductor Device Market

7.8.3. Rest of Middle East & Africa Semiconductor Device Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis

8.1.1. Company

8.1.2. Company

8.1.3. Company

8.2. Top Market Strategies

8.3. Company Profiles

8.3.1. Intel Corporation

8.3.1.1. Key Information

8.3.1.2. Overview

8.3.1.3. Financial (Subject to Data Availability)

8.3.1.4. Product Summary

8.3.1.5. Recent Developments

8.3.2. Nvidia Corporation

8.3.3. Kyocera Corporation

8.3.4. Qualcomm Incorporated

8.3.5. STMicroelectronics NV

8.3.6. Micron Technology Inc.

8.3.7. Xilinx Inc.

8.3.8. NXP Semiconductors NV

8.3.9. Toshiba Corporation

8.3.10. Texas Instruments Inc.

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process

9.1.1. Data Mining

9.1.2. Analysis

9.1.3. Market Estimation

9.1.4. Validation

9.1.5. Publishing

9.2. Research Attributes

9.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Semiconductor Device Market, report scope

TABLE 2. Global Semiconductor Device Market estimates & forecasts by Region
2020-2030 (USD Billion)

TABLE 3. Global Semiconductor Device Market estimates & forecasts by Device Type
2020-2030 (USD Billion)

TABLE 4. Global Semiconductor Device Market estimates & forecasts by End-user
Vertical 2020-2030 (USD Billion)

TABLE 5. Global Semiconductor Device Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 6. Global Semiconductor Device Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 7. Global Semiconductor Device Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 8. Global Semiconductor Device Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 9. Global Semiconductor Device Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 10. Global Semiconductor Device Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 11. Global Semiconductor Device Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 12. Global Semiconductor Device Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 13. Global Semiconductor Device Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 14. Global Semiconductor Device Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 15. U.S. Semiconductor Device Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 16. U.S. Semiconductor Device Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 17. U.S. Semiconductor Device Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 18. Canada Semiconductor Device Market estimates & forecasts, 2020-2030
(USD Billion)

TABLE 19. Canada Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. Canada Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. UK Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. Germany Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. France Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Semiconductor Device Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 39. China Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. India Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. RoLA Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. RoLA Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Semiconductor Device Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. South Africa Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoMEA Semiconductor Device Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Semiconductor Device Market

TABLE 70. List of primary sources, used in the study of global Semiconductor Device Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Semiconductor Device Market, research methodology
 - FIG 2. Global Semiconductor Device Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Semiconductor Device Market, key trends 2022
 - FIG 5. Global Semiconductor Device Market, growth prospects 2023-2030
 - FIG 6. Global Semiconductor Device Market, porters 5 force model
 - FIG 7. Global Semiconductor Device Market, pest analysis
 - FIG 8. Global Semiconductor Device Market, value chain analysis
 - FIG 9. Global Semiconductor Device Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Semiconductor Device Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Semiconductor Device Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Semiconductor Device Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Semiconductor Device Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Semiconductor Device Market, regional snapshot 2020 & 2030
 - FIG 15. North America Semiconductor Device Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Semiconductor Device Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia pacific Semiconductor Device Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Semiconductor Device Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Semiconductor Device Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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