

Global Programmable Logic Devices Market Growth 2025-2031

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Abstracts

The global Programmable Logic Devices market size is predicted to grow from US\$ 11500 million in 2025 to US\$ 26440 million in 2031; it is expected to grow at a CAGR of 14.9% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Programmable logic devices are semiconductor logic blocks which have applications for developing reconfigurable circuits. Programmable logic devices has the capability to be reprogrammed multiple times, which in turn benefits the end-users at the time of producing new advanced circuitry on a trial and error basis. Reprogramming is possible for the programmable logic devices as a result of these devices being primarily dependent on re-writeable memory technology through which a better flexibility is provided by changing the design along with making this process of reprogramming easier.

In recent years, the PLD market has been experiencing rapid growth, driven by the rise of IoT, AI, and 5G technologies. More applications require efficient real-time processing and flexible hardware configurations, directly boosting demand for programmable logic devices. Furthermore, technological advancements continue to enhance the integration and performance of PLDs, enabling developers to achieve complex functionalities in smaller spaces.

Key market drivers include the growing demand for personalized and customized solutions, as companies seek to meet specific functionality needs through PLDs.

Additionally, the rapid turnover of electronic products globally compels designers to look for more flexible design tools. The reduced costs and higher design efficiency of PLDs also make them an ideal choice for many emerging applications. As technology progresses and market demands diversify, programmable logic devices are set to play an increasingly crucial role in the future of electronic design.

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

This Insight Report provides a comprehensive analysis of the global Programmable Logic Devices landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Programmable Logic Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Programmable Logic Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Programmable Logic Devices and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Programmable Logic Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of Programmable Logic Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Simple Programmable Logic Devices (SPLDs)

Complex Programmable Logic Devices (CPLDs)

Field-Programmable Gate Arrays (FPGAs)

Segmentation by Application:

Telecom

Consumer Electronics

Automotive

Industrial

Military and Aerospace

Data Center

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

AMD (Xilinx)

Intel (Altera)

Microchip Technology

Lattice Semiconductor

Achronix Semiconductor Corporation

Shanghai Anlogic Infotech

Fudan Microelectronics

Ziguang Tongchuang

Gowin Semiconductor

Hercules Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Programmable Logic Devices market?

What factors are driving Programmable Logic Devices market growth, globally and by region?

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

How do Programmable Logic Devices market opportunities vary by end market size?

How does Programmable Logic Devices break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Programmable Logic Devices Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Programmable Logic Devices by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Programmable Logic Devices by Country/Region, 2020, 2024 & 2031
- 2.2 Programmable Logic Devices Segment by Type
 - 2.2.1 Simple Programmable Logic Devices (SPLDs)
 - 2.2.2 Complex Programmable Logic Devices (CPLDs)
 - 2.2.3 Field-Programmable Gate Arrays (FPGAs)
- 2.3 Programmable Logic Devices Sales by Type
 - 2.3.1 Global Programmable Logic Devices Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Programmable Logic Devices Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Programmable Logic Devices Sale Price by Type (2020-2025)
- 2.4 Programmable Logic Devices Segment by Application
 - 2.4.1 Telecom
 - 2.4.2 Consumer Electronics
 - 2.4.3 Automotive
 - 2.4.4 Industrial
 - 2.4.5 Military and Aerospace
 - 2.4.6 Data Center
 - 2.4.7 Others
- 2.5 Programmable Logic Devices Sales by Application

2.5.1 Global Programmable Logic Devices Sale Market Share by Application (2020-2025)

2.5.2 Global Programmable Logic Devices Revenue and Market Share by Application (2020-2025)

2.5.3 Global Programmable Logic Devices Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Programmable Logic Devices Breakdown Data by Company

3.1.1 Global Programmable Logic Devices Annual Sales by Company (2020-2025)

3.1.2 Global Programmable Logic Devices Sales Market Share by Company (2020-2025)

3.2 Global Programmable Logic Devices Annual Revenue by Company (2020-2025)

3.2.1 Global Programmable Logic Devices Revenue by Company (2020-2025)

3.2.2 Global Programmable Logic Devices Revenue Market Share by Company (2020-2025)

3.3 Global Programmable Logic Devices Sale Price by Company

3.4 Key Manufacturers Programmable Logic Devices Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Programmable Logic Devices Product Location Distribution

3.4.2 Players Programmable Logic Devices Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PROGRAMMABLE LOGIC DEVICES BY GEOGRAPHIC REGION

4.1 World Historic Programmable Logic Devices Market Size by Geographic Region (2020-2025)

4.1.1 Global Programmable Logic Devices Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Programmable Logic Devices Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Programmable Logic Devices Market Size by Country/Region (2020-2025)

4.2.1 Global Programmable Logic Devices Annual Sales by Country/Region

(2020-2025)

4.2.2 Global Programmable Logic Devices Annual Revenue by Country/Region

(2020-2025)

4.3 Americas Programmable Logic Devices Sales Growth

4.4 APAC Programmable Logic Devices Sales Growth

4.5 Europe Programmable Logic Devices Sales Growth

4.6 Middle East & Africa Programmable Logic Devices Sales Growth

5 AMERICAS

5.1 Americas Programmable Logic Devices Sales by Country

5.1.1 Americas Programmable Logic Devices Sales by Country (2020-2025)

5.1.2 Americas Programmable Logic Devices Revenue by Country (2020-2025)

5.2 Americas Programmable Logic Devices Sales by Type (2020-2025)

5.3 Americas Programmable Logic Devices Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Programmable Logic Devices Sales by Region

6.1.1 APAC Programmable Logic Devices Sales by Region (2020-2025)

6.1.2 APAC Programmable Logic Devices Revenue by Region (2020-2025)

6.2 APAC Programmable Logic Devices Sales by Type (2020-2025)

6.3 APAC Programmable Logic Devices Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Programmable Logic Devices by Country

7.1.1 Europe Programmable Logic Devices Sales by Country (2020-2025)

- 7.1.2 Europe Programmable Logic Devices Revenue by Country (2020-2025)
- 7.2 Europe Programmable Logic Devices Sales by Type (2020-2025)
- 7.3 Europe Programmable Logic Devices Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Programmable Logic Devices by Country
 - 8.1.1 Middle East & Africa Programmable Logic Devices Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Programmable Logic Devices Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Programmable Logic Devices Sales by Type (2020-2025)
- 8.3 Middle East & Africa Programmable Logic Devices Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Programmable Logic Devices
- 10.3 Manufacturing Process Analysis of Programmable Logic Devices
- 10.4 Industry Chain Structure of Programmable Logic Devices

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Programmable Logic Devices Distributors

11.3 Programmable Logic Devices Customer

12 WORLD FORECAST REVIEW FOR PROGRAMMABLE LOGIC DEVICES BY GEOGRAPHIC REGION

12.1 Global Programmable Logic Devices Market Size Forecast by Region

12.1.1 Global Programmable Logic Devices Forecast by Region (2026-2031)

12.1.2 Global Programmable Logic Devices Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Programmable Logic Devices Forecast by Type (2026-2031)

12.7 Global Programmable Logic Devices Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 AMD (Xilinx)

13.1.1 AMD (Xilinx) Company Information

13.1.2 AMD (Xilinx) Programmable Logic Devices Product Portfolios and Specifications

13.1.3 AMD (Xilinx) Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 AMD (Xilinx) Main Business Overview

13.1.5 AMD (Xilinx) Latest Developments

13.2 Intel (Altera)

13.2.1 Intel (Altera) Company Information

13.2.2 Intel (Altera) Programmable Logic Devices Product Portfolios and Specifications

13.2.3 Intel (Altera) Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Intel (Altera) Main Business Overview

13.2.5 Intel (Altera) Latest Developments

13.3 Microchip Technology

- 13.3.1 Microchip Technology Company Information
- 13.3.2 Microchip Technology Programmable Logic Devices Product Portfolios and Specifications
- 13.3.3 Microchip Technology Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.3.4 Microchip Technology Main Business Overview
- 13.3.5 Microchip Technology Latest Developments
- 13.4 Lattice Semiconductor
 - 13.4.1 Lattice Semiconductor Company Information
 - 13.4.2 Lattice Semiconductor Programmable Logic Devices Product Portfolios and Specifications
 - 13.4.3 Lattice Semiconductor Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.4.4 Lattice Semiconductor Main Business Overview
 - 13.4.5 Lattice Semiconductor Latest Developments
- 13.5 Achronix Semiconductor Corporation
 - 13.5.1 Achronix Semiconductor Corporation Company Information
 - 13.5.2 Achronix Semiconductor Corporation Programmable Logic Devices Product Portfolios and Specifications
 - 13.5.3 Achronix Semiconductor Corporation Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 Achronix Semiconductor Corporation Main Business Overview
 - 13.5.5 Achronix Semiconductor Corporation Latest Developments
- 13.6 Shanghai Anlogic Infotech
 - 13.6.1 Shanghai Anlogic Infotech Company Information
 - 13.6.2 Shanghai Anlogic Infotech Programmable Logic Devices Product Portfolios and Specifications
 - 13.6.3 Shanghai Anlogic Infotech Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Shanghai Anlogic Infotech Main Business Overview
 - 13.6.5 Shanghai Anlogic Infotech Latest Developments
- 13.7 Fudan Microelectronics
 - 13.7.1 Fudan Microelectronics Company Information
 - 13.7.2 Fudan Microelectronics Programmable Logic Devices Product Portfolios and Specifications
 - 13.7.3 Fudan Microelectronics Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Fudan Microelectronics Main Business Overview
 - 13.7.5 Fudan Microelectronics Latest Developments

13.8 Ziguang Tongchuang

13.8.1 Ziguang Tongchuang Company Information

13.8.2 Ziguang Tongchuang Programmable Logic Devices Product Portfolios and Specifications

13.8.3 Ziguang Tongchuang Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Ziguang Tongchuang Main Business Overview

13.8.5 Ziguang Tongchuang Latest Developments

13.9 Gowin Semiconductor

13.9.1 Gowin Semiconductor Company Information

13.9.2 Gowin Semiconductor Programmable Logic Devices Product Portfolios and Specifications

13.9.3 Gowin Semiconductor Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Gowin Semiconductor Main Business Overview

13.9.5 Gowin Semiconductor Latest Developments

13.10 Hercules Microelectronics

13.10.1 Hercules Microelectronics Company Information

13.10.2 Hercules Microelectronics Programmable Logic Devices Product Portfolios and Specifications

13.10.3 Hercules Microelectronics Programmable Logic Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Hercules Microelectronics Main Business Overview

13.10.5 Hercules Microelectronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Programmable Logic Devices Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Programmable Logic Devices Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Simple Programmable Logic Devices (SPLDs)

Table 4. Major Players of Complex Programmable Logic Devices (CPLDs)

Table 5. Major Players of Field-Programmable Gate Arrays (FPGAs)

Table 6. Global Programmable Logic Devices Sales by Type (2020-2025) & (Million Units)

Table 7. Global Programmable Logic Devices Sales Market Share by Type (2020-2025)

Table 8. Global Programmable Logic Devices Revenue by Type (2020-2025) & (\$ million)

Table 9. Global Programmable Logic Devices Revenue Market Share by Type (2020-2025)

Table 10. Global Programmable Logic Devices Sale Price by Type (2020-2025) & (US\$/Unit)

Table 11. Global Programmable Logic Devices Sale by Application (2020-2025) & (Million Units)

Table 12. Global Programmable Logic Devices Sale Market Share by Application (2020-2025)

Table 13. Global Programmable Logic Devices Revenue by Application (2020-2025) & (\$ million)

Table 14. Global Programmable Logic Devices Revenue Market Share by Application (2020-2025)

Table 15. Global Programmable Logic Devices Sale Price by Application (2020-2025) & (US\$/Unit)

Table 16. Global Programmable Logic Devices Sales by Company (2020-2025) & (Million Units)

Table 17. Global Programmable Logic Devices Sales Market Share by Company (2020-2025)

Table 18. Global Programmable Logic Devices Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global Programmable Logic Devices Revenue Market Share by Company (2020-2025)

Table 20. Global Programmable Logic Devices Sale Price by Company (2020-2025) &

(US\$/Unit)

Table 21. Key Manufacturers Programmable Logic Devices Producing Area Distribution and Sales Area

Table 22. Players Programmable Logic Devices Products Offered

Table 23. Programmable Logic Devices Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Programmable Logic Devices Sales by Geographic Region (2020-2025) & (Million Units)

Table 27. Global Programmable Logic Devices Sales Market Share Geographic Region (2020-2025)

Table 28. Global Programmable Logic Devices Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global Programmable Logic Devices Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global Programmable Logic Devices Sales by Country/Region (2020-2025) & (Million Units)

Table 31. Global Programmable Logic Devices Sales Market Share by Country/Region (2020-2025)

Table 32. Global Programmable Logic Devices Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global Programmable Logic Devices Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas Programmable Logic Devices Sales by Country (2020-2025) & (Million Units)

Table 35. Americas Programmable Logic Devices Sales Market Share by Country (2020-2025)

Table 36. Americas Programmable Logic Devices Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas Programmable Logic Devices Sales by Type (2020-2025) & (Million Units)

Table 38. Americas Programmable Logic Devices Sales by Application (2020-2025) & (Million Units)

Table 39. APAC Programmable Logic Devices Sales by Region (2020-2025) & (Million Units)

Table 40. APAC Programmable Logic Devices Sales Market Share by Region (2020-2025)

Table 41. APAC Programmable Logic Devices Revenue by Region (2020-2025) & (\$

millions)

Table 42. APAC Programmable Logic Devices Sales by Type (2020-2025) & (Million Units)

Table 43. APAC Programmable Logic Devices Sales by Application (2020-2025) & (Million Units)

Table 44. Europe Programmable Logic Devices Sales by Country (2020-2025) & (Million Units)

Table 45. Europe Programmable Logic Devices Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Programmable Logic Devices Sales by Type (2020-2025) & (Million Units)

Table 47. Europe Programmable Logic Devices Sales by Application (2020-2025) & (Million Units)

Table 48. Middle East & Africa Programmable Logic Devices Sales by Country (2020-2025) & (Million Units)

Table 49. Middle East & Africa Programmable Logic Devices Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa Programmable Logic Devices Sales by Type (2020-2025) & (Million Units)

Table 51. Middle East & Africa Programmable Logic Devices Sales by Application (2020-2025) & (Million Units)

Table 52. Key Market Drivers & Growth Opportunities of Programmable Logic Devices

Table 53. Key Market Challenges & Risks of Programmable Logic Devices

Table 54. Key Industry Trends of Programmable Logic Devices

Table 55. Programmable Logic Devices Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Programmable Logic Devices Distributors List

Table 58. Programmable Logic Devices Customer List

Table 59. Global Programmable Logic Devices Sales Forecast by Region (2026-2031) & (Million Units)

Table 60. Global Programmable Logic Devices Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas Programmable Logic Devices Sales Forecast by Country (2026-2031) & (Million Units)

Table 62. Americas Programmable Logic Devices Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC Programmable Logic Devices Sales Forecast by Region (2026-2031) & (Million Units)

Table 64. APAC Programmable Logic Devices Annual Revenue Forecast by Region

(2026-2031) & (\$ millions)

Table 65. Europe Programmable Logic Devices Sales Forecast by Country (2026-2031) & (Million Units)

Table 66. Europe Programmable Logic Devices Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Programmable Logic Devices Sales Forecast by Country (2026-2031) & (Million Units)

Table 68. Middle East & Africa Programmable Logic Devices Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global Programmable Logic Devices Sales Forecast by Type (2026-2031) & (Million Units)

Table 70. Global Programmable Logic Devices Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global Programmable Logic Devices Sales Forecast by Application (2026-2031) & (Million Units)

Table 72. Global Programmable Logic Devices Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. AMD (Xilinx) Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 74. AMD (Xilinx) Programmable Logic Devices Product Portfolios and Specifications

Table 75. AMD (Xilinx) Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 76. AMD (Xilinx) Main Business

Table 77. AMD (Xilinx) Latest Developments

Table 78. Intel (Altera) Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 79. Intel (Altera) Programmable Logic Devices Product Portfolios and Specifications

Table 80. Intel (Altera) Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 81. Intel (Altera) Main Business

Table 82. Intel (Altera) Latest Developments

Table 83. Microchip Technology Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 84. Microchip Technology Programmable Logic Devices Product Portfolios and Specifications

Table 85. Microchip Technology Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 86. Microchip Technology Main Business

Table 87. Microchip Technology Latest Developments

Table 88. Lattice Semiconductor Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 89. Lattice Semiconductor Programmable Logic Devices Product Portfolios and Specifications

Table 90. Lattice Semiconductor Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 91. Lattice Semiconductor Main Business

Table 92. Lattice Semiconductor Latest Developments

Table 93. Achronix Semiconductor Corporation Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 94. Achronix Semiconductor Corporation Programmable Logic Devices Product Portfolios and Specifications

Table 95. Achronix Semiconductor Corporation Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 96. Achronix Semiconductor Corporation Main Business

Table 97. Achronix Semiconductor Corporation Latest Developments

Table 98. Shanghai Anlogic Infotech Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 99. Shanghai Anlogic Infotech Programmable Logic Devices Product Portfolios and Specifications

Table 100. Shanghai Anlogic Infotech Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 101. Shanghai Anlogic Infotech Main Business

Table 102. Shanghai Anlogic Infotech Latest Developments

Table 103. Fudan Microelectronics Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 104. Fudan Microelectronics Programmable Logic Devices Product Portfolios and Specifications

Table 105. Fudan Microelectronics Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 106. Fudan Microelectronics Main Business

Table 107. Fudan Microelectronics Latest Developments

Table 108. Ziguang Tongchuang Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 109. Ziguang Tongchuang Programmable Logic Devices Product Portfolios and Specifications

Table 110. Ziguang Tongchuang Programmable Logic Devices Sales (Million Units),

Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 111. Ziguang Tongchuang Main Business

Table 112. Ziguang Tongchuang Latest Developments

Table 113. Gowin Semiconductor Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 114. Gowin Semiconductor Programmable Logic Devices Product Portfolios and Specifications

Table 115. Gowin Semiconductor Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 116. Gowin Semiconductor Main Business

Table 117. Gowin Semiconductor Latest Developments

Table 118. Hercules Microelectronics Basic Information, Programmable Logic Devices Manufacturing Base, Sales Area and Its Competitors

Table 119. Hercules Microelectronics Programmable Logic Devices Product Portfolios and Specifications

Table 120. Hercules Microelectronics Programmable Logic Devices Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 121. Hercules Microelectronics Main Business

Table 122. Hercules Microelectronics Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Programmable Logic Devices

Figure 2. Programmable Logic Devices Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Programmable Logic Devices Sales Growth Rate 2020-2031 (Million Units)

Figure 7. Global Programmable Logic Devices Revenue Growth Rate 2020-2031 (\$ millions)

Figure 8. Programmable Logic Devices Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Figure 9. Programmable Logic Devices Sales Market Share by Country/Region (2024)

Figure 10. Programmable Logic Devices Sales Market Share by Country/Region (2020, 2024 & 2031)

Figure 11. Product Picture of Simple Programmable Logic Devices (SPLDs)

Figure 12. Product Picture of Complex Programmable Logic Devices (CPLDs)

Figure 13. Product Picture of Field-Programmable Gate Arrays (FPGAs)

Figure 14. Global Programmable Logic Devices Sales Market Share by Type in 2025

Figure 15. Global Programmable Logic Devices Revenue Market Share by Type (2020-2025)

Figure 16. Programmable Logic Devices Consumed in Telecom

Figure 17. Global Programmable Logic Devices Market: Telecom (2020-2025) & (Million Units)

Figure 18. Programmable Logic Devices Consumed in Consumer Electronics

Figure 19. Global Programmable Logic Devices Market: Consumer Electronics (2020-2025) & (Million Units)

Figure 20. Programmable Logic Devices Consumed in Automotive

Figure 21. Global Programmable Logic Devices Market: Automotive (2020-2025) & (Million Units)

Figure 22. Programmable Logic Devices Consumed in Industrial

Figure 23. Global Programmable Logic Devices Market: Industrial (2020-2025) & (Million Units)

Figure 24. Programmable Logic Devices Consumed in Military and Aerospace

Figure 25. Global Programmable Logic Devices Market: Military and Aerospace (2020-2025) & (Million Units)

Figure 26. Programmable Logic Devices Consumed in Data Center

Figure 27. Global Programmable Logic Devices Market: Data Center (2020-2025) & (Million Units)

Figure 28. Programmable Logic Devices Consumed in Others

Figure 29. Global Programmable Logic Devices Market: Others (2020-2025) & (Million Units)

Figure 30. Global Programmable Logic Devices Sale Market Share by Application (2024)

Figure 31. Global Programmable Logic Devices Revenue Market Share by Application in 2025

Figure 32. Programmable Logic Devices Sales by Company in 2025 (Million Units)

Figure 33. Global Programmable Logic Devices Sales Market Share by Company in 2025

Figure 34. Programmable Logic Devices Revenue by Company in 2025 (\$ millions)

Figure 35. Global Programmable Logic Devices Revenue Market Share by Company in 2025

Figure 36. Global Programmable Logic Devices Sales Market Share by Geographic Region (2020-2025)

Figure 37. Global Programmable Logic Devices Revenue Market Share by Geographic Region in 2025

Figure 38. Americas Programmable Logic Devices Sales 2020-2025 (Million Units)

Figure 39. Americas Programmable Logic Devices Revenue 2020-2025 (\$ millions)

Figure 40. APAC Programmable Logic Devices Sales 2020-2025 (Million Units)

Figure 41. APAC Programmable Logic Devices Revenue 2020-2025 (\$ millions)

Figure 42. Europe Programmable Logic Devices Sales 2020-2025 (Million Units)

Figure 43. Europe Programmable Logic Devices Revenue 2020-2025 (\$ millions)

Figure 44. Middle East & Africa Programmable Logic Devices Sales 2020-2025 (Million Units)

Figure 45. Middle East & Africa Programmable Logic Devices Revenue 2020-2025 (\$ millions)

Figure 46. Americas Programmable Logic Devices Sales Market Share by Country in 2025

Figure 47. Americas Programmable Logic Devices Revenue Market Share by Country (2020-2025)

Figure 48. Americas Programmable Logic Devices Sales Market Share by Type (2020-2025)

Figure 49. Americas Programmable Logic Devices Sales Market Share by Application (2020-2025)

Figure 50. United States Programmable Logic Devices Revenue Growth 2020-2025 (\$

millions)

Figure 51. Canada Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 52. Mexico Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 53. Brazil Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 54. APAC Programmable Logic Devices Sales Market Share by Region in 2025

Figure 55. APAC Programmable Logic Devices Revenue Market Share by Region (2020-2025)

Figure 56. APAC Programmable Logic Devices Sales Market Share by Type (2020-2025)

Figure 57. APAC Programmable Logic Devices Sales Market Share by Application (2020-2025)

Figure 58. China Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 59. Japan Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 60. South Korea Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 61. Southeast Asia Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 62. India Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 63. Australia Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 64. China Taiwan Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 65. Europe Programmable Logic Devices Sales Market Share by Country in 2025

Figure 66. Europe Programmable Logic Devices Revenue Market Share by Country (2020-2025)

Figure 67. Europe Programmable Logic Devices Sales Market Share by Type (2020-2025)

Figure 68. Europe Programmable Logic Devices Sales Market Share by Application (2020-2025)

Figure 69. Germany Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 70. France Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 71. UK Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 72. Italy Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 73. Russia Programmable Logic Devices Revenue Growth 2020-2025 (\$

millions)

Figure 74. Middle East & Africa Programmable Logic Devices Sales Market Share by Country (2020-2025)

Figure 75. Middle East & Africa Programmable Logic Devices Sales Market Share by Type (2020-2025)

Figure 76. Middle East & Africa Programmable Logic Devices Sales Market Share by Application (2020-2025)

Figure 77. Egypt Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 78. South Africa Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 79. Israel Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 80. Turkey Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 81. GCC Countries Programmable Logic Devices Revenue Growth 2020-2025 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of Programmable Logic Devices in 2025

Figure 83. Manufacturing Process Analysis of Programmable Logic Devices

Figure 84. Industry Chain Structure of Programmable Logic Devices

Figure 85. Channels of Distribution

Figure 86. Global Programmable Logic Devices Sales Market Forecast by Region (2026-2031)

Figure 87. Global Programmable Logic Devices Revenue Market Share Forecast by Region (2026-2031)

Figure 88. Global Programmable Logic Devices Sales Market Share Forecast by Type (2026-2031)

Figure 89. Global Programmable Logic Devices Revenue Market Share Forecast by Type (2026-2031)

Figure 90. Global Programmable Logic Devices Sales Market Share Forecast by Application (2026-2031)

Figure 91. Global Programmable Logic Devices Revenue Market Share Forecast by Application (2026-2031)

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