

Global Mid-Range FPGA Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Mid-Range FPGA market size was valued at USD 2200.1 million in 2023 and is forecast to a readjusted size of USD 5261.2 million by 2030 with a CAGR of 13.3% during review period.

A field-programmable gate array is an integrated circuit designed to be configured by a customer or a designer after manufacturing –hence 'field-programmable'. The FPGA configuration is generally specified using a hardware description language, similar to that used for an application-specific integrated circuit. Circuit diagrams were previously used to specify the configuration, but this is increasingly rare due to the advent of electronic design automation tools.

Mid-range FPGAs usually strike a relative balance between performance and price. Compared with high-end FPGAs, mid-range FPGAs may not have the highest performance or the most advanced technology, but they are usually more advantageous on price. Therefore, mid-range FPGAs may be a good choice for some application scenarios that do not require the highest performance. Mid-range FPGAs may have a wider range of applications. Although high-end FPGAs have advantages in fields such as high-performance computing and large-scale data processing, mid-range FPGAs are also widely used in many conventional electronic equipment, embedded systems, automation control and other fields. As these areas continue to develop, the demand for mid-range FPGAs is also likely to grow further.

The Global Info Research report includes an overview of the development of the Mid-Range FPGA industry chain, the market status of Telecommunications (Less Than 28 nm, 28-90 nm), Automotive (Less Than 28 nm, 28-90 nm), and key enterprises in

developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Mid-Range FPGA.

Regionally, the report analyzes the Mid-Range FPGA markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Mid-Range FPGA market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Mid-Range FPGA market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Mid-Range FPGA industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Less Than 28 nm, 28-90 nm).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Mid-Range FPGA market.

Regional Analysis: The report involves examining the Mid-Range FPGA market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Mid-Range FPGA market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Mid-Range FPGA:

Company Analysis: Report covers individual Mid-Range FPGA manufacturers,

suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Mid-Range FPGA. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Telecommunications, Automotive).

Technology Analysis: Report covers specific technologies relevant to Mid-Range FPGA. It assesses the current state, advancements, and potential future developments in Mid-Range FPGA areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Mid-Range FPGA market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Mid-Range FPGA market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Less Than 28 nm

28-90 nm

More Than 90 nm

Market segment by Application

Telecommunications

Automotive

Industrial Control

Consumer Products

Data Center

Medical

Others

Major players covered

Xilinx (US)

Intel (US)

Lattice Semiconductor (US)

Microchip Technology (US)

QuickLogic (US)

TSMC (Taiwan)

Microchip (US)

United Microelectronics (Taiwan)

GLOBALFOUNDRIES (US)

Achronix (US)

S2C Inc (US)

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Mid-Range FPGA product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mid-Range FPGA, with price, sales, revenue and global market share of Mid-Range FPGA from 2019 to 2024.

Chapter 3, the Mid-Range FPGA competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mid-Range FPGA breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Mid-Range FPGA market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Mid-Range FPGA.

Chapter 14 and 15, to describe Mid-Range FPGA sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Mid-Range FPGA
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Mid-Range FPGA Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 Less Than 28 nm
 - 1.3.3 28-90 nm
 - 1.3.4 More Than 90 nm
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Mid-Range FPGA Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Telecommunications
 - 1.4.3 Automotive
 - 1.4.4 Industrial Control
 - 1.4.5 Consumer Products
 - 1.4.6 Data Center
 - 1.4.7 Medical
 - 1.4.8 Others
- 1.5 Global Mid-Range FPGA Market Size & Forecast
 - 1.5.1 Global Mid-Range FPGA Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global Mid-Range FPGA Sales Quantity (2019-2030)
 - 1.5.3 Global Mid-Range FPGA Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 Xilinx (US)
 - 2.1.1 Xilinx (US) Details
 - 2.1.2 Xilinx (US) Major Business
 - 2.1.3 Xilinx (US) Mid-Range FPGA Product and Services
 - 2.1.4 Xilinx (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 Xilinx (US) Recent Developments/Updates
- 2.2 Intel (US)
 - 2.2.1 Intel (US) Details
 - 2.2.2 Intel (US) Major Business

- 2.2.3 Intel (US) Mid-Range FPGA Product and Services
- 2.2.4 Intel (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.2.5 Intel (US) Recent Developments/Updates
- 2.3 Lattice Semiconductor (US)
 - 2.3.1 Lattice Semiconductor (US) Details
 - 2.3.2 Lattice Semiconductor (US) Major Business
 - 2.3.3 Lattice Semiconductor (US) Mid-Range FPGA Product and Services
 - 2.3.4 Lattice Semiconductor (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.3.5 Lattice Semiconductor (US) Recent Developments/Updates
- 2.4 Microchip Technology (US)
 - 2.4.1 Microchip Technology (US) Details
 - 2.4.2 Microchip Technology (US) Major Business
 - 2.4.3 Microchip Technology (US) Mid-Range FPGA Product and Services
 - 2.4.4 Microchip Technology (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.4.5 Microchip Technology (US) Recent Developments/Updates
- 2.5 QuickLogic (US)
 - 2.5.1 QuickLogic (US) Details
 - 2.5.2 QuickLogic (US) Major Business
 - 2.5.3 QuickLogic (US) Mid-Range FPGA Product and Services
 - 2.5.4 QuickLogic (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.5.5 QuickLogic (US) Recent Developments/Updates
- 2.6 TSMC (Taiwan)
 - 2.6.1 TSMC (Taiwan) Details
 - 2.6.2 TSMC (Taiwan) Major Business
 - 2.6.3 TSMC (Taiwan) Mid-Range FPGA Product and Services
 - 2.6.4 TSMC (Taiwan) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.6.5 TSMC (Taiwan) Recent Developments/Updates
- 2.7 Microchip (US)
 - 2.7.1 Microchip (US) Details
 - 2.7.2 Microchip (US) Major Business
 - 2.7.3 Microchip (US) Mid-Range FPGA Product and Services
 - 2.7.4 Microchip (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.7.5 Microchip (US) Recent Developments/Updates

2.8 United Microelectronics (Taiwan)

2.8.1 United Microelectronics (Taiwan) Details

2.8.2 United Microelectronics (Taiwan) Major Business

2.8.3 United Microelectronics (Taiwan) Mid-Range FPGA Product and Services

2.8.4 United Microelectronics (Taiwan) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 United Microelectronics (Taiwan) Recent Developments/Updates

2.9 GLOBALFOUNDRIES (US)

2.9.1 GLOBALFOUNDRIES (US) Details

2.9.2 GLOBALFOUNDRIES (US) Major Business

2.9.3 GLOBALFOUNDRIES (US) Mid-Range FPGA Product and Services

2.9.4 GLOBALFOUNDRIES (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 GLOBALFOUNDRIES (US) Recent Developments/Updates

2.10 Achronix (US)

2.10.1 Achronix (US) Details

2.10.2 Achronix (US) Major Business

2.10.3 Achronix (US) Mid-Range FPGA Product and Services

2.10.4 Achronix (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Achronix (US) Recent Developments/Updates

2.11 S2C Inc (US)

2.11.1 S2C Inc (US) Details

2.11.2 S2C Inc (US) Major Business

2.11.3 S2C Inc (US) Mid-Range FPGA Product and Services

2.11.4 S2C Inc (US) Mid-Range FPGA Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 S2C Inc (US) Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MID-RANGE FPGA BY MANUFACTURER

3.1 Global Mid-Range FPGA Sales Quantity by Manufacturer (2019-2024)

3.2 Global Mid-Range FPGA Revenue by Manufacturer (2019-2024)

3.3 Global Mid-Range FPGA Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Mid-Range FPGA by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Mid-Range FPGA Manufacturer Market Share in 2023

3.4.2 Top 6 Mid-Range FPGA Manufacturer Market Share in 2023

- 3.5 Mid-Range FPGA Market: Overall Company Footprint Analysis
 - 3.5.1 Mid-Range FPGA Market: Region Footprint
 - 3.5.2 Mid-Range FPGA Market: Company Product Type Footprint
 - 3.5.3 Mid-Range FPGA Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Mid-Range FPGA Market Size by Region
 - 4.1.1 Global Mid-Range FPGA Sales Quantity by Region (2019-2030)
 - 4.1.2 Global Mid-Range FPGA Consumption Value by Region (2019-2030)
 - 4.1.3 Global Mid-Range FPGA Average Price by Region (2019-2030)
- 4.2 North America Mid-Range FPGA Consumption Value (2019-2030)
- 4.3 Europe Mid-Range FPGA Consumption Value (2019-2030)
- 4.4 Asia-Pacific Mid-Range FPGA Consumption Value (2019-2030)
- 4.5 South America Mid-Range FPGA Consumption Value (2019-2030)
- 4.6 Middle East and Africa Mid-Range FPGA Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Mid-Range FPGA Sales Quantity by Type (2019-2030)
- 5.2 Global Mid-Range FPGA Consumption Value by Type (2019-2030)
- 5.3 Global Mid-Range FPGA Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Mid-Range FPGA Sales Quantity by Application (2019-2030)
- 6.2 Global Mid-Range FPGA Consumption Value by Application (2019-2030)
- 6.3 Global Mid-Range FPGA Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America Mid-Range FPGA Sales Quantity by Type (2019-2030)
- 7.2 North America Mid-Range FPGA Sales Quantity by Application (2019-2030)
- 7.3 North America Mid-Range FPGA Market Size by Country
 - 7.3.1 North America Mid-Range FPGA Sales Quantity by Country (2019-2030)
 - 7.3.2 North America Mid-Range FPGA Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Mid-Range FPGA Sales Quantity by Type (2019-2030)

8.2 Europe Mid-Range FPGA Sales Quantity by Application (2019-2030)

8.3 Europe Mid-Range FPGA Market Size by Country

8.3.1 Europe Mid-Range FPGA Sales Quantity by Country (2019-2030)

8.3.2 Europe Mid-Range FPGA Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Mid-Range FPGA Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Mid-Range FPGA Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Mid-Range FPGA Market Size by Region

9.3.1 Asia-Pacific Mid-Range FPGA Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Mid-Range FPGA Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Mid-Range FPGA Sales Quantity by Type (2019-2030)

10.2 South America Mid-Range FPGA Sales Quantity by Application (2019-2030)

10.3 South America Mid-Range FPGA Market Size by Country

10.3.1 South America Mid-Range FPGA Sales Quantity by Country (2019-2030)

10.3.2 South America Mid-Range FPGA Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Mid-Range FPGA Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Mid-Range FPGA Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Mid-Range FPGA Market Size by Country
 - 11.3.1 Middle East & Africa Mid-Range FPGA Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa Mid-Range FPGA Consumption Value by Country (2019-2030)
 - 11.3.3 Turkey Market Size and Forecast (2019-2030)
 - 11.3.4 Egypt Market Size and Forecast (2019-2030)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
 - 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 Mid-Range FPGA Market Drivers
- 12.2 Mid-Range FPGA Market Restraints
- 12.3 Mid-Range FPGA Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Mid-Range FPGA and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Mid-Range FPGA
- 13.3 Mid-Range FPGA Production Process
- 13.4 Mid-Range FPGA Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Mid-Range FPGA Typical Distributors

14.3 Mid-Range FPGA Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Mid-Range FPGA Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Mid-Range FPGA Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Xilinx (US) Basic Information, Manufacturing Base and Competitors

Table 4. Xilinx (US) Major Business

Table 5. Xilinx (US) Mid-Range FPGA Product and Services

Table 6. Xilinx (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Xilinx (US) Recent Developments/Updates

Table 8. Intel (US) Basic Information, Manufacturing Base and Competitors

Table 9. Intel (US) Major Business

Table 10. Intel (US) Mid-Range FPGA Product and Services

Table 11. Intel (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Intel (US) Recent Developments/Updates

Table 13. Lattice Semiconductor (US) Basic Information, Manufacturing Base and Competitors

Table 14. Lattice Semiconductor (US) Major Business

Table 15. Lattice Semiconductor (US) Mid-Range FPGA Product and Services

Table 16. Lattice Semiconductor (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Lattice Semiconductor (US) Recent Developments/Updates

Table 18. Microchip Technology (US) Basic Information, Manufacturing Base and Competitors

Table 19. Microchip Technology (US) Major Business

Table 20. Microchip Technology (US) Mid-Range FPGA Product and Services

Table 21. Microchip Technology (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Microchip Technology (US) Recent Developments/Updates

Table 23. QuickLogic (US) Basic Information, Manufacturing Base and Competitors

Table 24. QuickLogic (US) Major Business

Table 25. QuickLogic (US) Mid-Range FPGA Product and Services

Table 26. QuickLogic (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. QuickLogic (US) Recent Developments/Updates

Table 28. TSMC (Taiwan) Basic Information, Manufacturing Base and Competitors

Table 29. TSMC (Taiwan) Major Business

Table 30. TSMC (Taiwan) Mid-Range FPGA Product and Services

Table 31. TSMC (Taiwan) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. TSMC (Taiwan) Recent Developments/Updates

Table 33. Microchip (US) Basic Information, Manufacturing Base and Competitors

Table 34. Microchip (US) Major Business

Table 35. Microchip (US) Mid-Range FPGA Product and Services

Table 36. Microchip (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Microchip (US) Recent Developments/Updates

Table 38. United Microelectronics (Taiwan) Basic Information, Manufacturing Base and Competitors

Table 39. United Microelectronics (Taiwan) Major Business

Table 40. United Microelectronics (Taiwan) Mid-Range FPGA Product and Services

Table 41. United Microelectronics (Taiwan) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. United Microelectronics (Taiwan) Recent Developments/Updates

Table 43. GLOBALFOUNDRIES (US) Basic Information, Manufacturing Base and Competitors

Table 44. GLOBALFOUNDRIES (US) Major Business

Table 45. GLOBALFOUNDRIES (US) Mid-Range FPGA Product and Services

Table 46. GLOBALFOUNDRIES (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. GLOBALFOUNDRIES (US) Recent Developments/Updates

Table 48. Achronix (US) Basic Information, Manufacturing Base and Competitors

Table 49. Achronix (US) Major Business

Table 50. Achronix (US) Mid-Range FPGA Product and Services

Table 51. Achronix (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Achronix (US) Recent Developments/Updates

Table 53. S2C Inc (US) Basic Information, Manufacturing Base and Competitors

Table 54. S2C Inc (US) Major Business

- Table 55. S2C Inc (US) Mid-Range FPGA Product and Services
- Table 56. S2C Inc (US) Mid-Range FPGA Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. S2C Inc (US) Recent Developments/Updates
- Table 58. Global Mid-Range FPGA Sales Quantity by Manufacturer (2019-2024) & (K Units)
- Table 59. Global Mid-Range FPGA Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 60. Global Mid-Range FPGA Average Price by Manufacturer (2019-2024) & (USD/Unit)
- Table 61. Market Position of Manufacturers in Mid-Range FPGA, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
- Table 62. Head Office and Mid-Range FPGA Production Site of Key Manufacturer
- Table 63. Mid-Range FPGA Market: Company Product Type Footprint
- Table 64. Mid-Range FPGA Market: Company Product Application Footprint
- Table 65. Mid-Range FPGA New Market Entrants and Barriers to Market Entry
- Table 66. Mid-Range FPGA Mergers, Acquisition, Agreements, and Collaborations
- Table 67. Global Mid-Range FPGA Sales Quantity by Region (2019-2024) & (K Units)
- Table 68. Global Mid-Range FPGA Sales Quantity by Region (2025-2030) & (K Units)
- Table 69. Global Mid-Range FPGA Consumption Value by Region (2019-2024) & (USD Million)
- Table 70. Global Mid-Range FPGA Consumption Value by Region (2025-2030) & (USD Million)
- Table 71. Global Mid-Range FPGA Average Price by Region (2019-2024) & (USD/Unit)
- Table 72. Global Mid-Range FPGA Average Price by Region (2025-2030) & (USD/Unit)
- Table 73. Global Mid-Range FPGA Sales Quantity by Type (2019-2024) & (K Units)
- Table 74. Global Mid-Range FPGA Sales Quantity by Type (2025-2030) & (K Units)
- Table 75. Global Mid-Range FPGA Consumption Value by Type (2019-2024) & (USD Million)
- Table 76. Global Mid-Range FPGA Consumption Value by Type (2025-2030) & (USD Million)
- Table 77. Global Mid-Range FPGA Average Price by Type (2019-2024) & (USD/Unit)
- Table 78. Global Mid-Range FPGA Average Price by Type (2025-2030) & (USD/Unit)
- Table 79. Global Mid-Range FPGA Sales Quantity by Application (2019-2024) & (K Units)
- Table 80. Global Mid-Range FPGA Sales Quantity by Application (2025-2030) & (K Units)
- Table 81. Global Mid-Range FPGA Consumption Value by Application (2019-2024) & (USD Million)

Table 82. Global Mid-Range FPGA Consumption Value by Application (2025-2030) & (USD Million)

Table 83. Global Mid-Range FPGA Average Price by Application (2019-2024) & (USD/Unit)

Table 84. Global Mid-Range FPGA Average Price by Application (2025-2030) & (USD/Unit)

Table 85. North America Mid-Range FPGA Sales Quantity by Type (2019-2024) & (K Units)

Table 86. North America Mid-Range FPGA Sales Quantity by Type (2025-2030) & (K Units)

Table 87. North America Mid-Range FPGA Sales Quantity by Application (2019-2024) & (K Units)

Table 88. North America Mid-Range FPGA Sales Quantity by Application (2025-2030) & (K Units)

Table 89. North America Mid-Range FPGA Sales Quantity by Country (2019-2024) & (K Units)

Table 90. North America Mid-Range FPGA Sales Quantity by Country (2025-2030) & (K Units)

Table 91. North America Mid-Range FPGA Consumption Value by Country (2019-2024) & (USD Million)

Table 92. North America Mid-Range FPGA Consumption Value by Country (2025-2030) & (USD Million)

Table 93. Europe Mid-Range FPGA Sales Quantity by Type (2019-2024) & (K Units)

Table 94. Europe Mid-Range FPGA Sales Quantity by Type (2025-2030) & (K Units)

Table 95. Europe Mid-Range FPGA Sales Quantity by Application (2019-2024) & (K Units)

Table 96. Europe Mid-Range FPGA Sales Quantity by Application (2025-2030) & (K Units)

Table 97. Europe Mid-Range FPGA Sales Quantity by Country (2019-2024) & (K Units)

Table 98. Europe Mid-Range FPGA Sales Quantity by Country (2025-2030) & (K Units)

Table 99. Europe Mid-Range FPGA Consumption Value by Country (2019-2024) & (USD Million)

Table 100. Europe Mid-Range FPGA Consumption Value by Country (2025-2030) & (USD Million)

Table 101. Asia-Pacific Mid-Range FPGA Sales Quantity by Type (2019-2024) & (K Units)

Table 102. Asia-Pacific Mid-Range FPGA Sales Quantity by Type (2025-2030) & (K Units)

Table 103. Asia-Pacific Mid-Range FPGA Sales Quantity by Application (2019-2024) &

(K Units)

Table 104. Asia-Pacific Mid-Range FPGA Sales Quantity by Application (2025-2030) & (K Units)

Table 105. Asia-Pacific Mid-Range FPGA Sales Quantity by Region (2019-2024) & (K Units)

Table 106. Asia-Pacific Mid-Range FPGA Sales Quantity by Region (2025-2030) & (K Units)

Table 107. Asia-Pacific Mid-Range FPGA Consumption Value by Region (2019-2024) & (USD Million)

Table 108. Asia-Pacific Mid-Range FPGA Consumption Value by Region (2025-2030) & (USD Million)

Table 109. South America Mid-Range FPGA Sales Quantity by Type (2019-2024) & (K Units)

Table 110. South America Mid-Range FPGA Sales Quantity by Type (2025-2030) & (K Units)

Table 111. South America Mid-Range FPGA Sales Quantity by Application (2019-2024) & (K Units)

Table 112. South America Mid-Range FPGA Sales Quantity by Application (2025-2030) & (K Units)

Table 113. South America Mid-Range FPGA Sales Quantity by Country (2019-2024) & (K Units)

Table 114. South America Mid-Range FPGA Sales Quantity by Country (2025-2030) & (K Units)

Table 115. South America Mid-Range FPGA Consumption Value by Country (2019-2024) & (USD Million)

Table 116. South America Mid-Range FPGA Consumption Value by Country (2025-2030) & (USD Million)

Table 117. Middle East & Africa Mid-Range FPGA Sales Quantity by Type (2019-2024) & (K Units)

Table 118. Middle East & Africa Mid-Range FPGA Sales Quantity by Type (2025-2030) & (K Units)

Table 119. Middle East & Africa Mid-Range FPGA Sales Quantity by Application (2019-2024) & (K Units)

Table 120. Middle East & Africa Mid-Range FPGA Sales Quantity by Application (2025-2030) & (K Units)

Table 121. Middle East & Africa Mid-Range FPGA Sales Quantity by Region (2019-2024) & (K Units)

Table 122. Middle East & Africa Mid-Range FPGA Sales Quantity by Region (2025-2030) & (K Units)

Table 123. Middle East & Africa Mid-Range FPGA Consumption Value by Region (2019-2024) & (USD Million)

Table 124. Middle East & Africa Mid-Range FPGA Consumption Value by Region (2025-2030) & (USD Million)

Table 125. Mid-Range FPGA Raw Material

Table 126. Key Manufacturers of Mid-Range FPGA Raw Materials

Table 127. Mid-Range FPGA Typical Distributors

Table 128. Mid-Range FPGA Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Mid-Range FPGA Picture

Figure 2. Global Mid-Range FPGA Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Mid-Range FPGA Consumption Value Market Share by Type in 2023

Figure 4. Less Than 28 nm Examples

Figure 5. 28-90 nm Examples

Figure 6. More Than 90 nm Examples

Figure 7. Global Mid-Range FPGA Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Mid-Range FPGA Consumption Value Market Share by Application in 2023

Figure 9. Telecommunications Examples

Figure 10. Automotive Examples

Figure 11. Industrial Control Examples

Figure 12. Consumer Products Examples

Figure 13. Data Center Examples

Figure 14. Medical Examples

Figure 15. Others Examples

Figure 16. Global Mid-Range FPGA Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 17. Global Mid-Range FPGA Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 18. Global Mid-Range FPGA Sales Quantity (2019-2030) & (K Units)

Figure 19. Global Mid-Range FPGA Average Price (2019-2030) & (USD/Unit)

Figure 20. Global Mid-Range FPGA Sales Quantity Market Share by Manufacturer in 2023

Figure 21. Global Mid-Range FPGA Consumption Value Market Share by Manufacturer in 2023

Figure 22. Producer Shipments of Mid-Range FPGA by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 23. Top 3 Mid-Range FPGA Manufacturer (Consumption Value) Market Share in 2023

Figure 24. Top 6 Mid-Range FPGA Manufacturer (Consumption Value) Market Share in 2023

Figure 25. Global Mid-Range FPGA Sales Quantity Market Share by Region

(2019-2030)

Figure 26. Global Mid-Range FPGA Consumption Value Market Share by Region

(2019-2030)

Figure 27. North America Mid-Range FPGA Consumption Value (2019-2030) & (USD Million)

Figure 28. Europe Mid-Range FPGA Consumption Value (2019-2030) & (USD Million)

Figure 29. Asia-Pacific Mid-Range FPGA Consumption Value (2019-2030) & (USD Million)

Figure 30. South America Mid-Range FPGA Consumption Value (2019-2030) & (USD Million)

Figure 31. Middle East & Africa Mid-Range FPGA Consumption Value (2019-2030) & (USD Million)

Figure 32. Global Mid-Range FPGA Sales Quantity Market Share by Type (2019-2030)

Figure 33. Global Mid-Range FPGA Consumption Value Market Share by Type (2019-2030)

Figure 34. Global Mid-Range FPGA Average Price by Type (2019-2030) & (USD/Unit)

Figure 35. Global Mid-Range FPGA Sales Quantity Market Share by Application (2019-2030)

Figure 36. Global Mid-Range FPGA Consumption Value Market Share by Application (2019-2030)

Figure 37. Global Mid-Range FPGA Average Price by Application (2019-2030) & (USD/Unit)

Figure 38. North America Mid-Range FPGA Sales Quantity Market Share by Type (2019-2030)

Figure 39. North America Mid-Range FPGA Sales Quantity Market Share by Application (2019-2030)

Figure 40. North America Mid-Range FPGA Sales Quantity Market Share by Country (2019-2030)

Figure 41. North America Mid-Range FPGA Consumption Value Market Share by Country (2019-2030)

Figure 42. United States Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Canada Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 44. Mexico Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. Europe Mid-Range FPGA Sales Quantity Market Share by Type (2019-2030)

Figure 46. Europe Mid-Range FPGA Sales Quantity Market Share by Application (2019-2030)

Figure 47. Europe Mid-Range FPGA Sales Quantity Market Share by Country (2019-2030)

Figure 48. Europe Mid-Range FPGA Consumption Value Market Share by Country (2019-2030)

Figure 49. Germany Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. France Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. United Kingdom Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Russia Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Italy Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. Asia-Pacific Mid-Range FPGA Sales Quantity Market Share by Type (2019-2030)

Figure 55. Asia-Pacific Mid-Range FPGA Sales Quantity Market Share by Application (2019-2030)

Figure 56. Asia-Pacific Mid-Range FPGA Sales Quantity Market Share by Region (2019-2030)

Figure 57. Asia-Pacific Mid-Range FPGA Consumption Value Market Share by Region (2019-2030)

Figure 58. China Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Japan Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Korea Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. India Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. Southeast Asia Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Australia Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. South America Mid-Range FPGA Sales Quantity Market Share by Type (2019-2030)

Figure 65. South America Mid-Range FPGA Sales Quantity Market Share by Application (2019-2030)

Figure 66. South America Mid-Range FPGA Sales Quantity Market Share by Country

(2019-2030)

Figure 67. South America Mid-Range FPGA Consumption Value Market Share by Country (2019-2030)

Figure 68. Brazil Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 69. Argentina Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Middle East & Africa Mid-Range FPGA Sales Quantity Market Share by Type (2019-2030)

Figure 71. Middle East & Africa Mid-Range FPGA Sales Quantity Market Share by Application (2019-2030)

Figure 72. Middle East & Africa Mid-Range FPGA Sales Quantity Market Share by Region (2019-2030)

Figure 73. Middle East & Africa Mid-Range FPGA Consumption Value Market Share by Region (2019-2030)

Figure 74. Turkey Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. Egypt Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Saudi Arabia Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 77. South Africa Mid-Range FPGA Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 78. Mid-Range FPGA Market Drivers

Figure 79. Mid-Range FPGA Market Restraints

Figure 80. Mid-Range FPGA Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Manufacturing Cost Structure Analysis of Mid-Range FPGA in 2023

Figure 83. Manufacturing Process Analysis of Mid-Range FPGA

Figure 84. Mid-Range FPGA Industrial Chain

Figure 85. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 86. Direct Channel Pros & Cons

Figure 87. Indirect Channel Pros & Cons

Figure 88. Methodology

Figure 89. Research Process and Data Source

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