

Global Automotive Grade FPGA Market Research Report 2026(Status and Outlook)

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Abstracts

FPGA (Field Programmable Gate Array) is the abbreviation of Field Programmable Gate Array. It is a semi-customized integrated circuit and is a high-end product among programmable logic devices. Automotive-grade FPGAs comply with automotive certification standards such as AEC-Q, ISO 26262 or IATF 16949 series, and can maintain high performance and reliability in extreme environments.

The global Automotive Grade FPGA market size was estimated at USD 1230.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Automotive Grade FPGA market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Automotive Grade FPGA market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Automotive Grade FPGA market.

Global Automotive Grade FPGA Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Xilinx (AMD)
Shenjian Technology
Intelligent Polycrystalline Microelectronics
Infineon
Mediatek
STMicroelectronics

Market Segmentation (by Type)

24nm
32nm

Market Segmentation (by Application)

Commercial Vehicle
Passenger Vehicle

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Automotive Grade FPGA Market

Overview of the regional outlook of the Automotive Grade FPGA Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Automotive Grade FPGA Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Automotive Grade FPGA, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change. This enables you to anticipate market changes to remain ahead of your competitors.

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Automotive Grade FPGA
- 1.2 Key Market Segments
 - 1.2.1 Automotive Grade FPGA Segment by Type
 - 1.2.2 Automotive Grade FPGA Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 AUTOMOTIVE GRADE FPGA MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Automotive Grade FPGA Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Automotive Grade FPGA Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 AUTOMOTIVE GRADE FPGA MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Automotive Grade FPGA Product Life Cycle
- 3.3 Global Automotive Grade FPGA Sales by Manufacturers (2020-2025)
- 3.4 Global Automotive Grade FPGA Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Automotive Grade FPGA Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Automotive Grade FPGA Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Automotive Grade FPGA Market Competitive Situation and Trends
 - 3.8.1 Automotive Grade FPGA Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Automotive Grade FPGA Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 AUTOMOTIVE GRADE FPGA INDUSTRY CHAIN ANALYSIS

4.1 Automotive Grade FPGA Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AUTOMOTIVE GRADE FPGA MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Automotive Grade FPGA Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Automotive Grade FPGA Market

5.7 ESG Ratings of Leading Companies

6 AUTOMOTIVE GRADE FPGA MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Automotive Grade FPGA Sales Market Share by Type (2020-2025)

6.3 Global Automotive Grade FPGA Market Size by Type (2020-2025)

6.4 Global Automotive Grade FPGA Price by Type (2020-2025)

7 AUTOMOTIVE GRADE FPGA MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Automotive Grade FPGA Market Sales by Application (2020-2025)
- 7.3 Global Automotive Grade FPGA Market Size (M USD) by Application (2020-2025)
- 7.4 Global Automotive Grade FPGA Sales Growth Rate by Application (2020-2025)

8 AUTOMOTIVE GRADE FPGA MARKET SALES BY REGION

- 8.1 Global Automotive Grade FPGA Sales by Region
 - 8.1.1 Global Automotive Grade FPGA Sales by Region
 - 8.1.2 Global Automotive Grade FPGA Sales Market Share by Region
- 8.2 Global Automotive Grade FPGA Market Size by Region
 - 8.2.1 Global Automotive Grade FPGA Market Size by Region
 - 8.2.2 Global Automotive Grade FPGA Market Size by Region
- 8.3 North America
 - 8.3.1 North America Automotive Grade FPGA Sales by Country
 - 8.3.2 North America Automotive Grade FPGA Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Automotive Grade FPGA Sales by Country
 - 8.4.2 Europe Automotive Grade FPGA Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Automotive Grade FPGA Sales by Region
 - 8.5.2 Asia Pacific Automotive Grade FPGA Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Automotive Grade FPGA Sales by Country
 - 8.6.2 South America Automotive Grade FPGA Market Size by Country
 - 8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Automotive Grade FPGA Sales by Region

8.7.2 Middle East and Africa Automotive Grade FPGA Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 AUTOMOTIVE GRADE FPGA MARKET PRODUCTION BY REGION

9.1 Global Production of Automotive Grade FPGA by Region(2020-2025)

9.2 Global Automotive Grade FPGA Revenue Market Share by Region (2020-2025)

9.3 Global Automotive Grade FPGA Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Automotive Grade FPGA Production

9.4.1 North America Automotive Grade FPGA Production Growth Rate (2020-2025)

9.4.2 North America Automotive Grade FPGA Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Automotive Grade FPGA Production

9.5.1 Europe Automotive Grade FPGA Production Growth Rate (2020-2025)

9.5.2 Europe Automotive Grade FPGA Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Automotive Grade FPGA Production (2020-2025)

9.6.1 Japan Automotive Grade FPGA Production Growth Rate (2020-2025)

9.6.2 Japan Automotive Grade FPGA Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Automotive Grade FPGA Production (2020-2025)

9.7.1 China Automotive Grade FPGA Production Growth Rate (2020-2025)

9.7.2 China Automotive Grade FPGA Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Xilinx (AMD)

10.1.1 Xilinx (AMD) Basic Information

10.1.2 Xilinx (AMD) Automotive Grade FPGA Product Overview

- 10.1.3 Xilinx (AMD) Automotive Grade FPGA Product Market Performance
- 10.1.4 Xilinx (AMD) Business Overview
- 10.1.5 Xilinx (AMD) SWOT Analysis
- 10.1.6 Xilinx (AMD) Recent Developments
- 10.2 Shenjian Technology
 - 10.2.1 Shenjian Technology Basic Information
 - 10.2.2 Shenjian Technology Automotive Grade FPGA Product Overview
 - 10.2.3 Shenjian Technology Automotive Grade FPGA Product Market Performance
 - 10.2.4 Shenjian Technology Business Overview
 - 10.2.5 Shenjian Technology SWOT Analysis
 - 10.2.6 Shenjian Technology Recent Developments
- 10.3 Intelligent Polycrystalline Microelectronics
 - 10.3.1 Intelligent Polycrystalline Microelectronics Basic Information
 - 10.3.2 Intelligent Polycrystalline Microelectronics Automotive Grade FPGA Product Overview
 - 10.3.3 Intelligent Polycrystalline Microelectronics Automotive Grade FPGA Product Market Performance
 - 10.3.4 Intelligent Polycrystalline Microelectronics Business Overview
 - 10.3.5 Intelligent Polycrystalline Microelectronics SWOT Analysis
 - 10.3.6 Intelligent Polycrystalline Microelectronics Recent Developments
- 10.4 Infineon
 - 10.4.1 Infineon Basic Information
 - 10.4.2 Infineon Automotive Grade FPGA Product Overview
 - 10.4.3 Infineon Automotive Grade FPGA Product Market Performance
 - 10.4.4 Infineon Business Overview
 - 10.4.5 Infineon Recent Developments
- 10.5 Mediatek
 - 10.5.1 Mediatek Basic Information
 - 10.5.2 Mediatek Automotive Grade FPGA Product Overview
 - 10.5.3 Mediatek Automotive Grade FPGA Product Market Performance
 - 10.5.4 Mediatek Business Overview
 - 10.5.5 Mediatek Recent Developments
- 10.6 STMicroelectronics
 - 10.6.1 STMicroelectronics Basic Information
 - 10.6.2 STMicroelectronics Automotive Grade FPGA Product Overview
 - 10.6.3 STMicroelectronics Automotive Grade FPGA Product Market Performance
 - 10.6.4 STMicroelectronics Business Overview
 - 10.6.5 STMicroelectronics Recent Developments

11 AUTOMOTIVE GRADE FPGA MARKET FORECAST BY REGION

- 11.1 Global Automotive Grade FPGA Market Size Forecast
- 11.2 Global Automotive Grade FPGA Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Automotive Grade FPGA Market Size Forecast by Country
 - 11.2.3 Asia Pacific Automotive Grade FPGA Market Size Forecast by Region
 - 11.2.4 South America Automotive Grade FPGA Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Automotive Grade FPGA by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Automotive Grade FPGA Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Automotive Grade FPGA by Type (2026-2035)
 - 12.1.2 Global Automotive Grade FPGA Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Automotive Grade FPGA by Type (2026-2035)
- 12.2 Global Automotive Grade FPGA Market Forecast by Application (2026-2035)
 - 12.2.1 Global Automotive Grade FPGA Sales (K Units) Forecast by Application
 - 12.2.2 Global Automotive Grade FPGA Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Automotive Grade FPGA Market Size by Type (M USD)

Table 4. Global Automotive Grade FPGA Market Size by Application

Table 5. Automotive Grade FPGA Market Size Comparison by Region (M USD)

Table 6. Global Automotive Grade FPGA Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Automotive Grade FPGA Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Automotive Grade FPGA Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Automotive Grade FPGA Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Automotive Grade FPGA as of 2025)

Table 11. Global Market Automotive Grade FPGA Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Automotive Grade FPGA Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Automotive Grade FPGA Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Automotive Grade FPGA Sales by Type (K Units)

Table 27. Global Automotive Grade FPGA Market Size by Type (M USD)

Table 28. Global Automotive Grade FPGA Sales (K Units) by Type (2020-2025)

- Table 29. Global Automotive Grade FPGA Sales Market Share by Type (2020-2025)
- Table 30. Global Automotive Grade FPGA Market Size (M USD) by Type (2020-2025)
- Table 31. Global Automotive Grade FPGA Market Share by Type (2020-2025)
- Table 32. Global Automotive Grade FPGA Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Automotive Grade FPGA Sales (K Units) by Application
- Table 34. Global Automotive Grade FPGA Market Size by Application
- Table 35. Global Automotive Grade FPGA Sales by Application (2020-2025) & (K Units)
- Table 36. Global Automotive Grade FPGA Sales Market Share by Application (2020-2025)
- Table 37. Global Automotive Grade FPGA Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Automotive Grade FPGA Market Share by Application (2020-2025)
- Table 39. Global Automotive Grade FPGA Sales Growth Rate by Application (2020-2025)
- Table 40. Global Automotive Grade FPGA Sales by Region (2020-2025) & (K Units)
- Table 41. Global Automotive Grade FPGA Sales Market Share by Region (2020-2025)
- Table 42. Global Automotive Grade FPGA Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Automotive Grade FPGA Market Size by Region (2020-2025)
- Table 44. North America Automotive Grade FPGA Sales by Country (2020-2025) & (K Units)
- Table 45. North America Automotive Grade FPGA Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Automotive Grade FPGA Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Automotive Grade FPGA Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Automotive Grade FPGA Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Automotive Grade FPGA Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Automotive Grade FPGA Sales by Country (2020-2025) & (K Units)
- Table 51. South America Automotive Grade FPGA Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Automotive Grade FPGA Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Automotive Grade FPGA Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Automotive Grade FPGA Production (K Units) by Region(2020-2025)

Table 55. Global Automotive Grade FPGA Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Automotive Grade FPGA Revenue Market Share by Region (2020-2025)

Table 57. Global Automotive Grade FPGA Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Automotive Grade FPGA Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Automotive Grade FPGA Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Automotive Grade FPGA Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Automotive Grade FPGA Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Xilinx (AMD) Basic Information

Table 63. Xilinx (AMD) Automotive Grade FPGA Product Overview

Table 64. Xilinx (AMD) Automotive Grade FPGA Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Xilinx (AMD) Business Overview

Table 66. Xilinx (AMD) SWOT Analysis

Table 67. Xilinx (AMD) Recent Developments

Table 68. Shenjian Technology Basic Information

Table 69. Shenjian Technology Automotive Grade FPGA Product Overview

Table 70. Shenjian Technology Automotive Grade FPGA Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Shenjian Technology Business Overview

Table 72. Shenjian Technology SWOT Analysis

Table 73. Shenjian Technology Recent Developments

Table 74. Intelligent Polycrystalline Microelectronics Basic Information

Table 75. Intelligent Polycrystalline Microelectronics Automotive Grade FPGA Product Overview

Table 76. Intelligent Polycrystalline Microelectronics Automotive Grade FPGA Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Intelligent Polycrystalline Microelectronics Business Overview

Table 78. Intelligent Polycrystalline Microelectronics SWOT Analysis

Table 79. Intelligent Polycrystalline Microelectronics Recent Developments

Table 80. Infineon Basic Information

Table 81. Infineon Automotive Grade FPGA Product Overview

Table 82. Infineon Automotive Grade FPGA Sales (K Units), Revenue (M USD), Price

(USD/Unit) and Gross Margin (2020-2025)

Table 83. Infineon Business Overview

Table 84. Infineon Recent Developments

Table 85. Mediatek Basic Information

Table 86. Mediatek Automotive Grade FPGA Product Overview

Table 87. Mediatek Automotive Grade FPGA Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Mediatek Business Overview

Table 89. Mediatek Recent Developments

Table 90. STMicroelectronics Basic Information

Table 91. STMicroelectronics Automotive Grade FPGA Product Overview

Table 92. STMicroelectronics Automotive Grade FPGA Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. STMicroelectronics Business Overview

Table 94. STMicroelectronics Recent Developments

Table 95. Global Automotive Grade FPGA Sales Forecast by Region (2026-2035) & (K Units)

Table 96. Global Automotive Grade FPGA Market Size Forecast by Region (2026-2035) & (M USD)

Table 97. North America Automotive Grade FPGA Sales Forecast by Country (2026-2035) & (K Units)

Table 98. North America Automotive Grade FPGA Market Size Forecast by Country (2026-2035) & (M USD)

Table 99. Europe Automotive Grade FPGA Sales Forecast by Country (2026-2035) & (K Units)

Table 100. Europe Automotive Grade FPGA Market Size Forecast by Country (2026-2035) & (M USD)

Table 101. Asia Pacific Automotive Grade FPGA Sales Forecast by Region (2026-2035) & (K Units)

Table 102. Asia Pacific Automotive Grade FPGA Market Size Forecast by Region (2026-2035) & (M USD)

Table 103. South America Automotive Grade FPGA Sales Forecast by Country (2026-2035) & (K Units)

Table 104. South America Automotive Grade FPGA Market Size Forecast by Country (2026-2035) & (M USD)

Table 105. Middle East and Africa Automotive Grade FPGA Sales Forecast by Country (2026-2035) & (Units)

Table 106. Middle East and Africa Automotive Grade FPGA Market Size Forecast by Country (2026-2035) & (M USD)

Table 107. Global Automotive Grade FPGA Sales Forecast by Type (2026-2035) & (K Units)

Table 108. Global Automotive Grade FPGA Market Size Forecast by Type (2026-2035) & (M USD)

Table 109. Global Automotive Grade FPGA Price Forecast by Type (2026-2035) & (USD/Unit)

Table 110. Global Automotive Grade FPGA Sales (K Units) Forecast by Application (2026-2035)

Table 111. Global Automotive Grade FPGA Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Automotive Grade FPGA
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Automotive Grade FPGA Market Size (M USD), 2025-2035
- Figure 5. Global Automotive Grade FPGA Market Size (M USD) (2020-2035)
- Figure 6. Global Automotive Grade FPGA Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Automotive Grade FPGA Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Automotive Grade FPGA Product Life Cycle
- Figure 13. Automotive Grade FPGA Sales Share by Manufacturers in 2025
- Figure 14. Global Automotive Grade FPGA Revenue Share by Manufacturers in 2025
- Figure 15. Automotive Grade FPGA Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Automotive Grade FPGA Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Automotive Grade FPGA Revenue in 2025
- Figure 18. Industry Chain Map of Automotive Grade FPGA
- Figure 19. Global Automotive Grade FPGA Market PEST Analysis
- Figure 20. Global Automotive Grade FPGA Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Automotive Grade FPGA Market Share by Type
- Figure 27. Sales Market Share of Automotive Grade FPGA by Type (2020-2025)
- Figure 28. Sales Market Share of Automotive Grade FPGA by Type in 2025
- Figure 29. Market Share of Automotive Grade FPGA by Type (2020-2025)
- Figure 30. Market Share of Automotive Grade FPGA by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Automotive Grade FPGA Market Share by Application

Figure 33. Global Automotive Grade FPGA Sales Market Share by Application (2020-2025)

Figure 34. Global Automotive Grade FPGA Sales Market Share by Application in 2025

Figure 35. Global Automotive Grade FPGA Market Share by Application (2020-2025)

Figure 36. Global Automotive Grade FPGA Market Share by Application in 2025

Figure 37. Global Automotive Grade FPGA Sales Growth Rate by Application (2020-2025)

Figure 38. Global Automotive Grade FPGA Sales Market Share by Region (2020-2025)

Figure 39. Global Automotive Grade FPGA Market Size by Region (2020-2025)

Figure 40. North America Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Automotive Grade FPGA Sales Market Share by Country in 2024

Figure 43. North America Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Automotive Grade FPGA Market Size by Country in 2024

Figure 45. U.S. Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Automotive Grade FPGA Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Automotive Grade FPGA Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Automotive Grade FPGA Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Automotive Grade FPGA Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Automotive Grade FPGA Sales Market Share by Country in 2024

Figure 53. Europe Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Automotive Grade FPGA Market Size by Country in 2024

Figure 55. Germany Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Automotive Grade FPGA Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Automotive Grade FPGA Sales Market Share by Region in 2024

Figure 67. Asia Pacific Automotive Grade FPGA Market Size by Region in 2024

Figure 68. China Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Automotive Grade FPGA Sales and Growth Rate (K Units)

Figure 79. South America Automotive Grade FPGA Sales Market Share by Country in 2024

Figure 80. South America Automotive Grade FPGA Market Size and Growth Rate (M USD)

Figure 81. South America Automotive Grade FPGA Market Size by Country in 2024

Figure 82. Brazil Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Automotive Grade FPGA Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Automotive Grade FPGA Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Automotive Grade FPGA Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Automotive Grade FPGA Market Size by Region in 2024

Figure 92. Saudi Arabia Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K

Units)

Figure 99. Nigeria Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Automotive Grade FPGA Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Automotive Grade FPGA Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Automotive Grade FPGA Production Market Share by Region (2020-2025)

Figure 103. North America Automotive Grade FPGA Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Automotive Grade FPGA Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Automotive Grade FPGA Production (K Units) Growth Rate (2020-2025)

Figure 106. China Automotive Grade FPGA Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Automotive Grade FPGA Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Automotive Grade FPGA Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Automotive Grade FPGA Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Automotive Grade FPGA Market Share Forecast by Type (2026-2035)

Figure 111. Global Automotive Grade FPGA Sales Forecast by Application (2026-2035)

Figure 112. Global Automotive Grade FPGA Market Share Forecast by Application (2026-2035)

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