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Global Field Programmable Gate Arrays (FPGAs) Market Growth 2025-2031

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Abstracts

The global Field Programmable Gate Arrays (FPGAs) market size is predicted to grow from US$ 10990 million in 2025 to US$ 23340 million in 2031; it is expected to grow at a CAGR of 13.4% 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.

Field-Programmable Gate Array (FPGA) is a programmable integrated circuit (IC) or semiconductor device. The device could be reprogrammed as per preferred functionality or application requirement such as Application Specific Integrated Circuits (ASICs) that are function-specific. FPGAs offer several advantages such as rapid prototyping, easy debugging, low cost and lower the danger of product annihilation. Increasing need for customizable integrated is expected to drive the FPGA market. Growing demand for high performance IC designs and power efficient is expected to provide positive avenues to the market growth. Additionally, technological advancement in the telecom sector such as LTE and 3G technologies is estimated to favor the market growth.

Xilinx is the global largest manufacturer in the field-programmable gate array (FPGA) industry, with the revenue share of 45%, followed by Intel, Microsemi, latTic, Achronix.The top 2 companies have a combined market share of 80% of the global total. North America is world's largest producer.In terms of product, below 100K is the largest segment, with a share over 35%. And in terms of application, the largest application is communication network, followed by industrial control.

LP Information, Inc. (LPI) ' newest research report, the “Field Programmable Gate

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Arrays (FPGAs) Industry Forecast" looks at past sales and reviews total world Field Programmable Gate Arrays (FPGAs) sales in 2024, providing a comprehensive analysis by region and market sector of projected Field Programmable Gate Arrays (FPGAs) sales for 2025 through 2031. With Field Programmable Gate Arrays (FPGAs) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Field Programmable Gate Arrays (FPGAs) industry.

This Insight Report provides a comprehensive analysis of the global Field Programmable Gate Arrays (FPGAs) 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 Field Programmable Gate Arrays (FPGAs) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Field Programmable Gate Arrays (FPGAs) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Field Programmable Gate Arrays (FPGAs) 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 Field Programmable Gate Arrays (FPGAs).

This report presents a comprehensive overview, market shares, and growth opportunities of Field Programmable Gate Arrays (FPGAs) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

High-end FPGA

Mid-end FPGA

Low-end FPGA

Segmentation by Application:

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Telecommunications

Consumer Electronics

Automotive

Military and Aerospace

Data Center and Computing

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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- 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.

- Xilinx
- Intel
- Microchip Technology
- Lattice Semiconductor
- Quicklogic

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TSMC

S2C

United Microelectronics

Cypress Semiconductor

Achronix

Globalfoundries

Celerix Technologies

Emupro

National Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Field Programmable Gate Arrays (FPGAs) market?

What factors are driving Field Programmable Gate Arrays (FPGAs) market growth, globally and by region?

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

How do Field Programmable Gate Arrays (FPGAs) market opportunities vary by end market size?

How does Field Programmable Gate Arrays (FPGAs) break out by Type, by Application?

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