

Global Field-Programmable Gate Array (FPGA) Market Growth 2025-2031

<https://marketpublishers.com/r/G949B4B7B31EN.html>

Date: January 2025

Pages: 90

Price: US\$ 3,660.00 (Single User License)

ID: G949B4B7B31EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Field-Programmable Gate Array (FPGA) market size is predicted to grow from US\$ 9303 million in 2025 to US\$ 22000 million in 2031; it is expected to grow at a CAGR of 15.4% from 2025 to 2031.

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.

The FPGA (Field-Programmable Gate Array) market is experiencing significant growth driven by several key trends and factors. There is an increasing demand for high-performance computing, particularly in applications such as artificial intelligence (AI), machine learning, and data analytics. Additionally, the expansion of the Internet of Things (IoT) and edge computing is contributing to the adoption of FPGAs, as they enable faster data processing and real-time decision-making at the edge. The deployment of 5G technology is also fostering the use of FPGAs in telecommunications, where they play a crucial role in processing high-speed data and handling complex signal processing tasks.

FPGAs offer customization and flexibility, allowing them to be reprogrammed for various applications, which enhances their appeal in diverse sectors such as automotive, aerospace, and healthcare. Furthermore, FPGAs are increasingly being integrated with AI and machine learning frameworks, improving their capabilities in processing complex algorithms and data streams.

AMD (Xilinx) is the global largest player in the field-programmable gate array (FPGA) industry, followed by Intel, Microchip, Lattice, Achronix, etc. The top 3 companies have a combined market share of above 80% of the global total.

LP Information, Inc. (LPI) ' newest research report, the "Field-Programmable Gate Array (FPGA) Industry Forecast" looks at past sales and reviews total world Field-Programmable Gate Array (FPGA) sales in 2024, providing a comprehensive analysis by region and market sector of projected Field-Programmable Gate Array (FPGA) sales for 2025 through 2031. With Field-Programmable Gate Array (FPGA) 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 Array (FPGA) industry.

This Insight Report provides a comprehensive analysis of the global Field-Programmable Gate Array (FPGA) 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 Array (FPGA) 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 Array (FPGA) market.

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

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

Segmentation by Type:

?100K

100K-500K

500K-1KK

?1KK

Segmentation by Application:

Communication Network

Industrial Control

Data Center

Automotive Electronics

Consumer Electronics

Military

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 Field-Programmable Gate Array (FPGA) market?

What factors are driving Field-Programmable Gate Array (FPGA) market growth, globally and by region?

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

How do Field-Programmable Gate Array (FPGA) market opportunities vary by end market size?

How does Field-Programmable Gate Array (FPGA) break out by Type, by Application?

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