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Global Field-Programmable Gate Array (FPGA) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GB0D81FB2C6EN.html
Date: June 2026
Pages: 105
Price: US$ 3,480.00 (Single User License)
ID: GB0D81FB2C6EN

Abstracts

According to our (Global Info Research) latest study, the global Field-Programmable Gate Array (FPGA) market size was valued at US$ 11090 million in 2025 and is forecast to a readjusted size of US$ 28380 million by 2032 with a CAGR of 14.5% during review period.

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.

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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.

This report is a detailed and comprehensive analysis for global Field-Programmable Gate Array (FPGA) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Field-Programmable Gate Array (FPGA) market size and forecasts, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Field-Programmable Gate Array (FPGA) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Field-Programmable Gate Array (FPGA) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Pcs), and average selling prices (US$/Pcs), 2021-2032

Global Field-Programmable Gate Array (FPGA) market shares of main players, shipments in revenue ($ Million), sales quantity (K Pcs), and ASP (US$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

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To assess the growth potential for Field-Programmable Gate Array (FPGA)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Field-Programmable Gate Array (FPGA) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AMD (Xilinx), Intel (Altera), Microchip Technology, Lattice Semiconductor, Achronix Semiconductor Corporation, Shanghai Anlogic Infotech, Fudan Microelectronics, Ziguang Tongchuang, Gowin Semiconductor, Hercules Microelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Field-Programmable Gate Array (FPGA) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

?100K

100K-500K

500K-1KK

?1KK

Market segment by Application

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Communication Network

Industrial Control

Data Center

Automotive Electronics

Consumer Electronics

Military

Others

Major players covered

AMD (Xilinx)

Intel (Altera)

Microchip Technology

Lattice Semiconductor

Achronix Semiconductor Corporation

Shanghai Anlogic Infotech

Fudan Microelectronics

Ziguang Tongchuang

Gowin Semiconductor

Hercules Microelectronics

Market segment by region, regional analysis covers

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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 Field-Programmable Gate Array (FPGA) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Field-Programmable Gate Array (FPGA), with price, sales quantity, revenue, and global market share of Field-Programmable Gate Array (FPGA) from 2021 to 2026.

Chapter 3, the Field-Programmable Gate Array (FPGA) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Field-Programmable Gate Array (FPGA) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026.and Field-Programmable Gate Array (FPGA) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five

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Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Field-Programmable Gate Array (FPGA).

Chapter 14 and 15, to describe Field-Programmable Gate Array (FPGA) sales channel, distributors, customers, research findings and conclusion.

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