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Field Programmable Gate Array (FPGA) Market Research Report-Forecast 2030

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Description:

Field Programmable Gate Array Market Overview:

The global Field Programmable Gate Array (FPGA) market is expected to see enormous growth over the forecast period (2020 - 2030). The FPGA market was evaluated at USD 9 billion in 2019. The market is expected to grow at a swift speed, with a CAGR (Compound Annual Growth Rate) of 11.2% in the coming years. The market value is anticipated to reach around USD 25.85 billion by the end of the year 2030.

A Field Programmable Gate Array refers to an integrated circuit that helps deploy logical functions. It uses pre-developed routing channels and gate array logic blocks to deploy custom hardware operations. However, these blocks vary according to the system developer.

In an FPGA field, large devices for system design. For the control functionality or interfacing, only small devices are used. The Field Programmable Gate Array is a semiconductor device. It can be programmed as per the needs of the consumer. It can be applied in almost every sector, mainly the IT & telecommunication sector. The Field Programmable Gate Array (FPGA) market share is expected to witness tremendous heights in the years to come.

Covid-19 Analysis:

After the impact of Covid-19 across the globe, many large-scale businesses and industries suffered, except healthcare and life support products. The lockdown and physical distancing protocols also affected many small and big business institutions alike. Likewise, the FPGA market too saw a decline since the pandemic. The businesses have very little capability to grow further.

However, businesses are trying to adapt to the protocols of the pandemic to revive their sales. They need to plan and execute according to the expectations of the consumer. The Covid-19 impact is expected to fade very soon, and the businesses may be able to revive their sales across the globe. It is anticipated that most markets will grow at a high CAGR at the beginning of 2022.

Market Dynamics:

Drivers:

A few factors drive the growth of the FGPA market. One of the most important factors among them is the huge demand for power-efficacy around the globe. Moreover, FPGA offers high-performance IC designs. They also deliver growing services of bandwidth for several service operators to create networks. AI, 5G wireless networking, data centers, and edge computing may also aid in market growth.

Opportunities:

In the IT and telecommunication sector, there is an increasing demand for Field Programmable Gate arrays. Moreover, the propriety operation of the array helps increase its utility in the IT & telecommunication sector. These are some opportunities for the application of FPGA around the world.

Restraints:

There may be a few factors that inhibit the growth of the global Field Programming Gate

Array (FPGA) market size. The Antifuse and Flash FGPA technologies are robust and are expected to be applied in many areas around the globe. However, EEPROM systems may face a downfall because of new advanced innovations in technology. Hence this may hinder the global market growth.

Cumulative Growth Analysis:

The global Field Programmable Gate Array market is expected to see enormous growth over the forecast period (2022 – 2027). The FPGA market was evaluated at USD 9 billion in 2019. The market is expected to grow at a swift speed, with a CAGR of 10.87% in the coming years. The market value is anticipated to reach around USD 18.8 billion by the end of the year 2027.

Value Chain Analysis:

The demand for Field Programmable Gate Array is increasing by the day globally. It is widely applied in networking and telecommunication sectors such as Optical Transport Network (OTN). It is also applied in packet switching and processing. A Field Programmable Gate array is also used to deliver propriety operation and connections in merchant silicon machines. It also aids in developing digital circuits.

FPGA also delivers faster processing and quicker responsiveness compared to other latest microprocessors. Hence, it helps increase the overall performance of networks and devices. Moreover, programmable gate arrays can be reprogrammed or reused. So it is reliable and flexible for application in the IT & telecommunication sector.

Field Programmable Gate Array Market Segment Overview:

The global Field Programmable Gate Array market is divided into various segments such as technology, node size, configuration, and application. Given below are the important Field-Programmable Gate Array market segments:

By Technology:

- Flash
- SRAM
- Antifuse
- EEPROM
- Others

By Node Size:

- Less than 28 nm
- 28 to 90 nm
- More than 90 nm

By Configuration:

- Low-end FPGA
- Mid-range FPGA
- High-end FPGA

By Application:

- 3G
- 4G
- LTE
- WiMax

By Vertical:

- Automotive
- Military & Aerospace
- IT & Telecommunication
- Consumer Electronics
- Industrial
- Data Processing
- Others

Field Programmable Gate Array Market Regional Analysis:

Based on region, the global Field Programmable Gate Array market is divided into North America, Europe, Asia Pacific, and Middle East & Africa. Among them, Asia Pacific is anticipated to dominate the market during the Field Programmable Gate Array (FPGA) market forecast.

Asian countries such as China, India, Japan, and South Korea have fueled the demand for consumer electronics. Hence, this will lead to the growth of the FPGA market in this region in the coming years. Next in line is expected to be North America. This region has most of the key players of the market which are experiencing many collaborations and expansions. Europe may also witness constant market growth.

Competitive Landscape:

The FPGA market is dominated by a few companies that play a vital role in the growth of the market. These Field Programmable Gate Array technology companies are called key companies. They contribute to the largest share of the market profit. The key companies contribute to the growth of the market by adopting many Field Programmable Gate Array (FPGA) market trends. They offer FPGAs with higher reliability, processing speed, and security.

Field Programmable Gate Array Market Key Players:

Listed below are some of the major companies of the global FPGA market with the location of their headquarters:

- SiliconeBlue Technologies (US)
- Intel Corporations (US)
- Lattice Semiconductor
- Atmel Corporations (US)
- S2C Inc. (US)
- Cypress Semiconductor
- Xilinx Inc.
- Microchip Technology Inc.
- Texas Instruments Inc. (US)
- Tabula (US)
- Teledyne Technologies Inc.
- QuickLogin Corporation (US)
- Taiwan Semiconductor Manufacturing Company Limited (Taiwan)
- Achronix Semiconductor Corporation (US)

- Applied Microcircuits Corporation (US)

Recent Developments:

- In June 2018, Xilinx Inc. joined hands with Daimler AG to aid the deep learning experts of the Mercedes-Benz R&D centers. The system is to develop AI algorithms on the adaptable acceleration platform of Xilinx.
- Huawei Technologies Corporation partnered with Xilinx Inc. to provide Huawei's high-speed cloud server in the North American region. This highly benefits the consumers.
- In October 2019, Lattice semiconductor introduced its CrossLinkPlus flash technology FPGA. This delivered improvised sensor and display bridging. It can be applied in the automotive, consumer electronics, computing, and industrial sectors.
- Xilinx Inc. launched its Virtex and Kintex portfolios in November 2018. They are designed for defense-grade programmable gate arrays. It can be applied in the military and aerospace fields. They can withstand any climate, offer high security, and are highly reliable.

Report Overview:

This report caters to all information about the growth of the global Field Programmable Gate Array market over the forecast period. There are different sections presented that help to get in-depth information such as opportunities, challenges, drivers, Covid-19 analysis, regional analysis, competitive landscape, and others. All the information is collected from reliable primary and secondary sources to provide the expected details of the FPGA market analysis.

Report Detail:

- Historic Period: 2015-2020
- Base Year: 2021
- Forecast Period: 2022-2027

Geographically:

- North America
- Europe
- Asia-Pacific
- Middle East & Africa

Field Programmable Gate Array Market

The Field Programmable Gate Array Market Size Is Predicted To Grow From USD 9 Billion In 2019 to 25.85 Billion By 2030, Growing At a Growth Rate (CAGR) of 11.2%.

By Configuration

- Low-End FPGA
- Mid-Range FPGA
- High-End FPGA

By Node Size

- Less than 28 nm
- 28 and 90 nm
- More than 90 nm

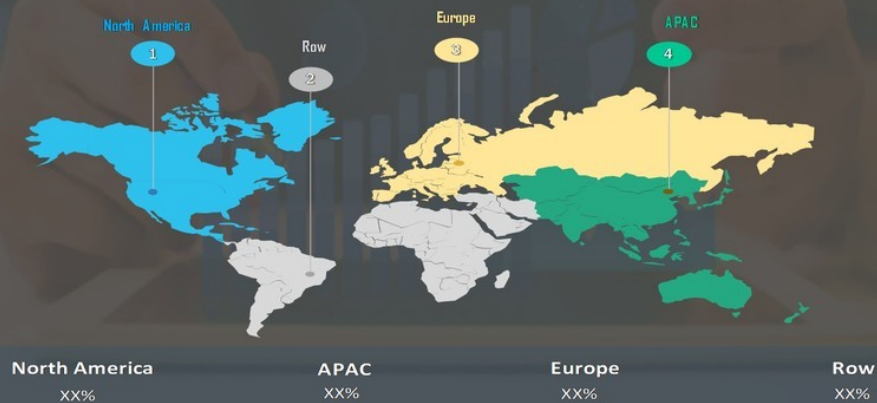
By Technology

- SRAM
- FLASH
- Antifuse Technologies

By Region

- North America
- APAC
- Europe
- Row

Field Programmable Gate Array Market Share Analysis, By Regions



DRIVERS:

- FPGA's deployment across telecommunication sector for increasing the network bandwidth
- Efficiency of FPGAS over ASICS

RESTRAINTS:

- Security Concerns with FPGAS

KEY PLAYERS :

- SiliconeBlue Technologies (US)
- Intel Corporations (US)
- Lattice Semiconductor
- Atmel Corporations (US)
- S2C Inc. (US)
- Cypress Semiconductor
- Xilinx Inc.
- Microchip Technology Inc.
- Texas Instruments Inc. (US)
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- Teledyne Technologies Inc.

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