

Global Field Programmable Gate Array (FPGA) Market Size study, by Configuration (Low, Mid, High) by Technology (SRAM, EEPROM, Antifuse, Flash, Others) by Application (Test, Measurement And Emulation, Consumer Electronics, Automotive, Wired & Wireless Communication, Industrial, Others) and Regional Forecasts 2022-2028

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Abstracts

Global Field Programmable Gate Array (FPGA) Market is valued approximately USD 10.83 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 9.7 % over the forecast period 2022-2028. Field Programmable Gate Arrays are semiconductor devices built around a matrix of configurable logic blocks linked via programmable interconnects. A field programmable gate array (FPGA) is an integrated circuit that can be programmed later in the field after manufacturing. FPGA offers various advantages such as real-time application cycle, better performance, cost efficiency, and simple design. Hence, these arrays are widely utilized in the medical, automotive, consumer electronics, security systems, industrial and aerospace and defense sectors. The growing utilization in multiple verticals owing to the shift towards digitization in most of the sectors drives the market towards growth. Moreover, rising demand of extensive computation fuels the market growth. Along with the cloud computing and data processing industry presenting lucrative market growth opportunities. As the rise in demand for cloud storages and connected devices across the globe increases adoption of FPGA during the forecast period. Furthermore, the rise in demand for optimization in the big data analytics acts as a primary driver for the market. As major corporations such as Google and Amazon rely on FPGA to make business decisions based on big data analytics deriving consumer insights. According to American Society for Quality's report of April 2019, 63% of manufacturers consider IoT products will increase

profitability over the next five years and will invest USD 267 billion in IoT by 2020.

Moreover, as per Statista, the North American IoT market has grown from USD 140 billion in 2012 to USD 330 billion in 2018. Also, as of 2018 there were 2.3 billion IoT connections in the region which is expected to increase to 6 billion by 2025. However, lack of a standardized verification technique impedes the growth of the market over the forecast period of 2022-2028. Although, technological improvements in FPGA design have led to the increased demand for SRAM, Antifuse, and flash-based field programmable gate arrays. Propelling a growing market during the forecast period.

The regional analysis of Global Field Programmable Gate Array (FPGA) Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. Asia-Pacific is the leading/significant region across the world in terms of market share owing to the high adoption of the big data analytics technology in the region and the presence of the largest manufacturing bases in the countries such as China. Whereas, Asia-Pacific is also anticipated to exhibit highest growth rate / CAGR over the forecast period 2022-2028. Factors such as rising sales of connected devices along with the high investments by public and private organizations for the development of Artificial Intelligence technology would create lucrative growth prospects for the global Field Programmable Gate Array (FPGA) Market across Asia-Pacific region.

Major market player included in this report are:

Altera

Xilinx

Microsemi

Atmel

Achronix

Cypress Semiconductor

Intel Corporation

Texas Instruments

Lattice

Aeroflex Inc

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors &

challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Configuration:

Low range

Mid-range

High range

By Technology:

SRAM

EEPROM

Antifuse

Flash

Others

By Application:

Test, Measurement and Emulation

Consumer Electronics

Automotive

Wired & Wireless Communication,

Industrial

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

Asia Pacific

China

India

Japan

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019,2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Field Programmable Gate Array (FPGA) Market in
Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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