

Report Information

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FPGA Security Market Research Report- Global Forecast till 2032

Report / Search Code: MRFR/SEM/6293-CR Publish Date: April, 2019

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Price	1-user PDF : \$ 4950.0	Site PDF : \$ 5950.0	Enterprise PDF : \$ 7250.0
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Description:

FPGA Security Market Overview:

FPGA Security Market Size was valued at USD 2.11 Billion in 2023. The FPGA Security market industry is projected to grow from USD 2.34 Billion in 2024 to USD 4.94 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 9.75% during the forecast period (2024 - 2032). Rising numbers of data centers worldwide and increasing demand for security protocols are the key market drivers enhancing market growth.

FPGA Security Market
Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

FPGA Security Market Trends

• Growing of data centers and the use of the cloud is driving the market growth

Market CAGR for FPGA security is driven by the increased use of data centers, and cloud services have made it necessary to find ways to keep data safe. Hardware solutions for programmable electronics can improve storage solutions already in place. Cloud security engineers can improve data center authentication by using bitstream authentication. In businesses, the endpoints of data transmission must be safe from harmful data. FPGAs can give industrial controls better security than libraries of antivirus software that are always being updated. Cyberattacks often go after networks with different layouts, low encryption, and security standards. FPGAs can be used to speed up the processing of loops and parallelization by adding reprogrammed algorithms and cryptographic protocols. Industry 4.0 and its many uses could lead to the development of FPGA security options. Demand for FPGA security is expected to rise due to the issues mentioned above in the future.

Additionally, FPGAs are used a lot in the telecommunications business, which is one of the most promising. The global telecom business is growing because developed and developing countries are investing more and changing their communication systems. IoT, AI, and edge computing technologies are causing customers' wants and preferences to change in a big way, both good and bad for telecom companies. Because the telecommunications industry is so complicated and customer demand is growing, the working needs of the equipment and hardware used in the industry and the need for secure communications are quickly increasing. In the next few years, the size of the FPGA security market for the telecommunications sector is expected to grow because of its easy configurability, flexibility, low latency operations, effective hardware acceleration, and low costs. Therefore, the increasing prevalence of FPGA security is fueling the expansion of the international market.

For instance, Lattice Semiconductor Corporation invests in the Lattice Mach-NX FPGA, the second generation of secure control FPGAs. It can be used in future server platforms, high computing, wireless communications, industrial, and car systems to make working faster and safer while using less power. As a result, the demand for FPGA security is predicted to grow throughout the forecasted time due to the rising demand for the automotive industry. Thus, the driving factor is the FPGA security market revenue.

FPGA Security Market Segment Insights:

FPGA Security Configuration Insights

The FPGA Security Market segmentation, based on configuration, includes low-end FPGA, mid-range FPGA, and high-end FPGA. In 2022, the low-end FPGA segment led the FPGA security market in revenue. Low-end FPGAs are used in more automotive, consumer electronics, and industrial uses because they use less energy and are easier to use.

Figure 1: FPGA Security Market by Configuration, 2022 & 2032 (USD Billion)

FPGA Security Market by Configuration, 2022 & 2032
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FPGA Security Node Size Insights

The FPGA Security Market segmentation, based on node size, includes less than 28nm, 28-90 nm, and more than 90nm. The 28-90 nm category is anticipated to grow at a CAGR of 11.20% over the projected period, making up the largest market share due to the 20–90 nm FPGAs' good performance, flexibility in programming, and low power use, among other things. The telecommunications industry's demand for 20–90 nm FPGAs in wired and wireless transmission is increasing.

FPGA Security Technology Insights

The FPGA Security Market segmentation, based on the technology, includes SRAM, flash, and anti-fuse. The SRAM category is expected to grow fastest at a CAGR of 11.20% in the future because Increasing use of these FPGAs in telecommunication systems, consumer gadgets, military and aerospace, and data center network acceleration, among other things. The complementary metal oxide semiconductor (CMOS) process builds FPGAs on SRAM technology.

FPGA Security Application Insights

The FPGA Security Market segmentation, based on application, includes FPGA synthesis flow, applied cryptography, algorithmic cryptographic security, and others. The applied cryptography category is anticipated to grow at a CAGR of 11.20% over the projected period because, with FPGA-based implementations of cryptography and key storage, the system can be set up so that the software can never access cryptographic keys or other security-critical values. Even if the program is broken, the FPGA will keep the keys safe.

FPGA Security Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American FPGA security market will dominate because of technological improvements and customer demand for FPGAs rising in these countries, and more and more companies are entering the FPGA market. IT and telecommunications are growing, and there are more and more data centers.

Further, the major countries studied in the market report are The US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: FPGA Security Market SHARE BY REGION 2022 (USD Billion)

FPGA Security Market SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe's FPGA security market accounts for the second-largest market share because 5G networks are increasingly used. Further, the German FPGA security market held the largest market share, and the UK FPGA security market was the rapidly-growing market in the European region.

The Asia-Pacific FPGA security market is expected to grow at the fastest CAGR from 2023 to 2032 because of things like the growing demand for consumer electronics, the increasing trend of automation in the automotive and industrial sectors, and the growing use of technologies like AI, IoT, and cloud computing. Moreover, China's FPGA security market held the largest market share, and the Indian FPGA security market was the fastest-rising market in the Asia-Pacific region.

FPGA Security Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development to expand their product lines, which will help the FPGA security market grow even more. There are some strategies for action that market participants are implementing to increase their presence around the world's global footprint, with important market developments including new product launches, contractual agreements and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, the FPGA security industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics manufacturer use in the global FPGA security industry to benefit clients and increase the market sector. In recent years, the FPGA security industry has offered some of the most significant technological advancements. Major players in the FPGA security market, including Xilinx Inc., Microchip Technology Inc., Achronix Semiconductor Corporation, Cypress Semiconductor Corporation, Texas Instruments Incorporated, Lattice Semiconductor, Intel Corporation, Financial Overview, Quicklogics Corp., and Teledyne Technologies Inc., and others are attempting to grow market demand by investing in research and development operations.

AMD has significantly accelerated innovation in graphics, visualization, and high-performance computing. Billions of people worldwide utilize AMD technology daily to improve their lives, careers, and leisure activities. Top Fortune 500 businesses and leading-edge institutions for scientific research are included in this. AMD staff members focus primarily on developing flexible, high-performance solutions that stretch the bounds of what is possible. When AMD was established as a Silicon Valley start-up in 1969, hundreds of employees were enthusiastic about creating cutting-edge semiconductor devices at the company's inception. AMD has become a worldwide company defining the standard for modern computing thanks to several key industry firsts and substantial technological advancements. In June 2023, AMD announced the addition of two new, workload-optimized processors to its array of 4th Gen EPYC™ CPUs. By leveraging the new "Zen 4c" core architecture, the AMD EPYC 97X4 cloud native-optimized data center CPUs advance the EPYC 9004 Series of processors by offering the thread density and scale necessary for leading-edge cloud native computing.

Microchip Technology, Inc. is an industry-recognized pioneer in embedded control systems that are intelligent, networked, and secure. With its user-friendly development tools and a broad choice of products, customers can create the finest designs possible, lowering risk while reducing total system cost and time to market. In the industrial, automotive, consumer, aerospace and defense, communications, and computer industries, the company's products

are used by more than 125,000 clients. Microchip's headquarters in Chandler, Arizona, offers superb technical support, dependable shipping, and premium goods. In January 2023, Microchip Technology Inc. announced its first radiation-tolerant commercial off-the-shelf (COTS) power device, the MIC69303RT 3A Low-Dropout (LDO) Voltage Regulator. The MIC69303RT, a revolutionary high current and low voltage power management solution targeted at LEO and other space applications, is an example.

Key Companies in the FPGA Security Market include

- [AMD Xilinx Inc.](#)
- [Microchip Technology Inc.](#)
- [Achronix Semiconductor Corporation](#)
- [Cypress Semiconductor Corporation](#)
- [Texas Instruments Incorporated](#)
- [Lattice Semiconductor](#)
- [Intel Corporation](#)
- [Financial Overview](#)
- [Quicklogics Corp.](#)
- [Teledyne Technologies Inc.](#)

FPGA Security Industry Developments

March 2023: Texas Instruments (TI) announced that LITEON Technology had chosen TI's highly integrated C2000™ real-time microcontrollers (MCUs) and Gallium Nitride (GaN) field effect transistor (FET) for their newest high-performance server PSU for the North American market. A TMS320F28003x C2000 real-time MCU and TI's LMG3522R030 GaN FET are used in the recently commercialized PSU, which offers a power density of over 95 W/in³ and satisfies 80 Plus Titanium criteria.

March 2023: Microchip Technology created its flight-ready RT PolarFire® FPGA with the development kit and interfaces to enable the evaluation of design concepts based on actual in-flight electrical and mechanical properties.

FPGA Security Market Segmentation:

FPGA Security Configuration Outlook

- [Low-end FPGA](#)
- [Mid-Range FPGA](#)
- [High-End FPGA](#)

FPGA Security Node Size Outlook

- [Less than 28nm](#)
- [28nm](#)
- [32nm](#)

28-90 nm

- More than 90nm

FPGA Security Technology Outlook

- SRAM
- Flash
- Antifuse

FPGA Security Application Outlook

- FPGA synthesis Flow
- Applied cryptography
- Algorithmic cryptographic security
- Others

FPGA Security Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain

- Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

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