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Global FPGA for 5G Market Growth 2025-2031

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Abstracts

The global FPGA for 5G market size is predicted to grow from US$ 4027 million in 2025 to US$ 12830 million in 2031; it is expected to grow at a CAGR of 21.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

FPGA for 5G refers to the use of Field-Programmable Gate Arrays (FPGAs) in the development and deployment of 5G wireless communication systems. FPGAs provide a flexible, reconfigurable hardware platform ideal for processing high-speed data, enabling low-latency communication, and accelerating signal processing tasks in 5G base stations, core networks, and user devices. They are commonly used in prototyping, beamforming, massive MIMO, and real-time data processing.

The global 5G Small Base Station FPGA Chip core manufacturers are Intel(Altera), AMD (Xilinx), Lattice, the world's top three manufacturers occupy about 98% of the market share. China is the largest market with about 66% share, followed by South Korea and North America with 10% and 9% market share, respectively. In terms of product type, SRAM-type 5G small base station FPGA chips are the largest segment, accounting for about 100% of the share, while in terms of downstream, Samll are the largest downstream field, accounting for 70% of the share.

Since 2019, the demand for 5G communications represented by South Korea, China, the United States, and Japan has gradually been released, and the 5G market has entered the first round of construction cycle. In 2021, the global shipment of 5G small base stations began to increase. 2022 is an important year for the commercial use of 5G small base stations. The three major operators have started the normalization of 5G

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small base station testing and centralized procurement, indicating that small base stations are ready for commercial use.

From the perspective of the core market, China's 5G small base station FPGA chip market accounts for about 66% of the global market share, making it one of the world's most important consumer markets, and its growth rate is higher than the world. With the acceleration of product development of domestic enterprises and the dual drive of new technologies and industrial policies, China's 5G small base station FPGA chip market will usher in development opportunities in the future.

The threshold for FPGA is very high, and it has been monopolized by a few American manufacturers for decades. However, my country's FPGA started late, and coupled with the barriers of foreign companies in technology and patents, the gap between China and foreign countries in the entire FPGA industry chain is still very large, including technology accumulation, number of patents, talent reserves, process technology, logic scale, performance indicators, production and supply chain capabilities, R&D investment, ecology and industry integration capabilities. Domestic manufacturers still need to adhere to the path of independent control + independent innovation, and work hard in FPGA core, heterogeneous computing technology, chip process and packaging implementation, EDA tool chain and software processing capabilities, and application soft IP construction, and gradually build a domestic FPGA chip + application ecosystem.

Speaking of the current typical 5G small base station design scheme, there are mainly three types. The first is the X86+ FPGA solution, with Intel as the main representative of manufacturers, the case is mature, and will evolve to FlexRan, cloud, and containerization in the future. The second is the ARM+ DSP solution, with NXP as the main representative of manufacturers, and the products have the advantages of low cost and low power consumption. The third is the ASIC chip solution. Manufacturers represented by Qualcomm have products that are flexible, virtualizable, and scalable. At present, the localization of 5G small base stations has made initial breakthroughs and has a long-term technical development foundation. For example, in the localization of 5G protocol stacks, Guangzhou Shiju has occupied more than 60% of the market share. In terms of the localization of FPGA chips, Fudan Micro and Anlu Technology have gradually applied them to 5G small base stations.

LP Information, Inc. (LPI) ' newest research report, the “FPGA for 5G Industry Forecast” looks at past sales and reviews total world FPGA for 5G sales in 2024, providing a comprehensive analysis by region and market sector of projected FPGA for 5G sales for 2025 through 2031. With FPGA for 5G sales broken down by region,

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market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world FPGA for 5G industry.

This Insight Report provides a comprehensive analysis of the global FPGA for 5G 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 FPGA for 5G portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global FPGA for 5G market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for FPGA for 5G 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 FPGA for 5G.

This report presents a comprehensive overview, market shares, and growth opportunities of FPGA for 5G market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SRAM Type

Flash Type

Segmentation by Application:

5G Macro Base Station

5G Small Base Station

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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)

Lattice

Microchip(Microsemi)

Achronix Semiconductor

Shanghai Anlogic Infotech

Guoxin Micro

Shanghai Fudan Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global FPGA for 5G market?
What factors are driving FPGA for 5G market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do FPGA for 5G market opportunities vary by end market size?
How does FPGA for 5G break out by Type, by Application?

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