

# Global FPGA for 5G Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on FPGA for 5G competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. 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 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.

The global FPGA for 5G market size was estimated at USD 3428.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 20.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global FPGA for 5G market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market

positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global FPGA for 5G market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the FPGA for 5G market.

### **Global FPGA for 5G Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

AMD (Xilinx)  
Intel(Altera)  
Lattice  
Microchip(Microsemi)  
Achronix Semiconductor  
Shanghai Anlogic Infotech  
Guoxin Micro  
Shanghai Fudan Microelectronics

### **Market Segmentation (by Type)**

SRAM Type

Flash Type

### **Market Segmentation (by Application)**

5G Macro Base Station

5G Small Base Station

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the FPGA for 5G Market

Overview of the regional outlook of the FPGA for 5G Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the FPGA for 5G Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of FPGA for 5G, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development

potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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