

Global 5G Small Base Station FPGA Chip Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global 5G Small Base Station FPGA Chip market size was valued at US\$ 2498 million in 2024 and is forecast to a readjusted size of USD 14010 million by 2031 with a CAGR of 27.9% during review period.

FPGA (Field Programmable Gate Array) is a product that is further developed on the basis of programmable devices such as PAL (Programmable Array Logic) and GAL (General Array Logic). It emerged as a semi-custom circuit in the field of application-specific integrated circuits (ASICs), which not only solves the shortcomings of custom circuits, but also overcomes the shortcomings of the limited number of gate circuits of the original programmable devices.

FPGA has unique advantages in the case of frequent changes and upgrades of communication protocols due to its programmable flexibility and low latency. Since 5G communication has higher requirements for the connection speed, low latency, connection density, and spectrum bandwidth of base station RF chips, and the addition of new 5G key technologies such as Massive MIMO (massive antenna array) technology, cloud RAN, new baseband and RF architecture, it has a long iterative upgrade process and greater technical uncertainty. This makes it difficult for the market to quickly launch mature 5G ASIC chips, thus providing a longer time window for the use of FPGA in the 5G field. Therefore, before the entire 5G system solution is running stably, FPGA is a more ideal solution.

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.

This report is a detailed and comprehensive analysis for global 5G Small Base Station FPGA Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 5G Small Base Station FPGA Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 5G Small Base Station FPGA Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 5G Small Base Station FPGA Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global 5G Small Base Station FPGA Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 5G Small Base Station FPGA Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 5G Small Base Station FPGA Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AMD (Xilinx), Intel(Altera), Lattice, Microchip(Microsemi), Achronix Semiconductor, Shanghai Anlogic Infotech, Guoxin Micro, Shanghai Fudan Microelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

5G Small Base Station FPGA Chip market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SRAM Type

Flash Type

Market segment by Application

Samll

Pico

Femto

Major players covered

AMD (Xilinx)

Intel(Altera)

Lattice

Microchip(Microsemi)

Achronix Semiconductor

Shanghai Anlogic Infotech

Guoxin Micro

Shanghai Fudan Microelectronics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 5G Small Base Station FPGA Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 5G Small Base Station FPGA Chip, with price, sales quantity, revenue, and global market share of 5G Small Base Station FPGA Chip from 2020 to 2025.

Chapter 3, the 5G Small Base Station FPGA Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 5G Small Base Station FPGA Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and 5G Small Base Station FPGA Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 5G Small Base Station FPGA Chip.

Chapter 14 and 15, to describe 5G Small Base Station FPGA Chip sales channel, distributors, customers, research findings and conclusion.

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