

Global FPGA Cards Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global FPGA Cards market size was valued at US\$ 5006 million in 2025 and is forecast to a readjusted size of US\$ 7863 million by 2032 with a CAGR of 6.7% during review period.

FPGA (Field-Programmable Gate Array) cards are hardware devices that feature an FPGA chip, which can be programmed and reprogrammed to perform a wide range of custom computing tasks. These cards are used to accelerate processing in various applications, including data analysis, signal processing, artificial intelligence, cryptography, telecommunications, and more. The FPGA on the card can be configured to execute parallel processing tasks, making them highly efficient for specific computational workloads.

This report is a detailed and comprehensive analysis for global FPGA Cards 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 FPGA Cards market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global FPGA Cards market size and forecasts by region and country, in consumption

value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global FPGA Cards market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global FPGA Cards market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 FPGA Cards

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 FPGA Cards 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 Abaco Systems (AMETEK), Silicom, Mesa Electronics, Alpha Data, New Wave Design, iWave, Marvin Test Solutions, Concurrent Real-Time, Great River Technology, Curtiss-Wright, etc.

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

Market Segmentation

FPGA Cards market is split by Type and by Application. For the period 2021-2032, 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

12-Port

16-Port

30-Port

Others

Market segment by Application

Telecommunications

Data Centers and Cloud Computing

Automotive

Aerospace

Others

Major players covered

Abaco Systems (AMETEK)

Silicom

Mesa Electronics

Alpha Data

New Wave Design

iWave

Marvin Test Solutions

Concurrent Real-Time

Great River Technology

Curtiss-Wright

Portwell (Posiflex Technology)

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 FPGA Cards product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of FPGA Cards, with price, sales quantity, revenue, and global market share of FPGA Cards from 2021 to 2026.

Chapter 3, the FPGA Cards competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the FPGA Cards breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and FPGA Cards market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 FPGA Cards.

Chapter 14 and 15, to describe FPGA Cards sales channel, distributors, customers, research findings and conclusion.

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