

Global FPGA PCIe Card Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global FPGA PCIe Card market size is expected to reach \$ 7502 million by 2032, rising at a market growth of 13.7% CAGR during the forecast period (2026-2032).

In 2025, global FPGA PCIe Card production reached approximately 898 k units with an average global market price of around US\$3,300 per unit. Single-line annual production capacity averages 35 k units with a gross margin of approximately 40%. The upstream of the FPGA PCIe Card industry is primarily composed of FPGA chips and PCIe interface chips, focusing on the data center sector, accounting for approximately 60% of consumption. The downstream applications are diverse, with data centers accounting for about 40%, finance 20%, AIoT 15%, industrial automation 10%, and other sectors 15%. The demand for FPGA PCIe Cards is growing with the rapid development of sectors such as data centers and AIoT, and the business opportunities are mainly reflected in technological innovation and customized services.

The FPGA PCIe Card leverages the flexibility and programmability of Field-Programmable Gate Arrays (FPGAs) to offer a versatile and customizable solution for high-speed data processing and communication. By integrating FPGAs into a PCIe interface, this card enables real-time data processing capabilities, adaptive interface configurations, and the ability to accommodate custom algorithms and hardware accelerators, providing a dynamic and efficient platform for data-intensive applications.

This report studies the global FPGA PCIe Card production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for FPGA PCIe Card and provides market size (US\$ million) and Year-over-Year (YoY) Growth,

considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of FPGA PCIe Card that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global FPGA PCIe Card total production and demand, 2021-2032, (K Units)
Global FPGA PCIe Card total production value, 2021-2032, (USD Million)
Global FPGA PCIe Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global FPGA PCIe Card consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: FPGA PCIe Card domestic production, consumption, key domestic manufacturers and share
Global FPGA PCIe Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global FPGA PCIe Card production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global FPGA PCIe Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global FPGA PCIe Card market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AMD, Intel, Molex, Alpha Data Parallel Systems, Advantech, Korusys, Gidel, iWave Global, Concurrent Real-Time, Hitek Systems, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World FPGA PCIe Card market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global FPGA PCIe Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global FPGA PCIe Card Market, Segmentation by Type:

Programmable

Non-Programmable

Global FPGA PCIe Card Market, Segmentation by PCIe Card Size:

Half-length, Half-height PCIe Card

Half-length, Full-height PCIe Card

Global FPGA PCIe Card Market, Segmentation by Application:

Data Center

Finance

AIoT

Industrial Automation

Others

Companies Profiled:

AMD

Intel

Molex

Alpha Data Parallel Systems

Advantech

Korusys

Gidel

iWave Global

Concurrent Real-Time

Hitek Systems

PRO DESIGN Electronic GmbH

Silicom

Resnics (Shanghai) Technology

Hangzhou Flyslice Technology

Beijing TSINGETECH

Beijing Dawning Information Industry

Suzhou Zhongke Yihai Microelectronics Technology

Key Questions Answered:

1. How big is the global FPGA PCIe Card market?
2. What is the demand of the global FPGA PCIe Card market?
3. What is the year over year growth of the global FPGA PCIe Card market?
4. What is the production and production value of the global FPGA PCIe Card market?
5. Who are the key producers in the global FPGA PCIe Card market?
6. What are the growth factors driving the market demand?

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