

Global FPGA PCIe Card Market Growth 2026-2032

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Abstracts

The global FPGA PCIe Card market size is predicted to grow from US\$ 2900 million in 2025 to US\$ 7459 million in 2032; it is expected to grow at a CAGR of 14.5% from 2026 to 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.

United States market for FPGA PCIe Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for FPGA PCIe Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for FPGA PCIe Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key FPGA PCIe Card players cover AMD, Intel, Molex, Alpha Data Parallel Systems, Advantech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "FPGA PCIe Card Industry Forecast" looks at past sales and reviews total world FPGA PCIe Card sales in 2025, providing a comprehensive analysis by region and market sector of projected FPGA PCIe Card sales for 2026 through 2032. With FPGA PCIe Card sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world FPGA PCIe Card industry.

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

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

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

Segmentation by Type:

Programmable

Non-Programmable

Segmentation by PCIe Card Size:

Half-length, Half-height PCIe Card

Half-length, Full-height PCIe Card

Segmentation by Application:

Data Center

Finance

AIoT

Industrial Automation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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

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 Addressed in this Report

What is the 10-year outlook for the global FPGA PCIe Card market?

What factors are driving FPGA PCIe Card market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do FPGA PCIe Card market opportunities vary by end market size?

How does FPGA PCIe Card break out by Type, by Application?

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