

Global FPGA PCIe Accelerator Card Market Growth 2026-2032

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Abstracts

The global FPGA PCIe Accelerator Card market size is predicted to grow from US\$ 2808 million in 2025 to US\$ 7041 million in 2032; it is expected to grow at a CAGR of 14.1% from 2026 to 2032.

In 2025, global FPGA PCIe Accelerator 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 34 k units with a gross margin of approximately 39-42%. The FPGA PCIe Accelerator Card is centered around its core components, the FPGA and PCIe interface chips, which are predominantly utilized in the data center field, representing approximately 65% of the market. The card has a wide range of downstream applications, with data centers accounting for about 50% of the market, finance 25%, AIoT 15%, industrial automation 10%, and other sectors 10%. With the rapid development of the data center and AIoT sectors, the demand for FPGA PCIe Accelerator Cards is continuously increasing, and technological innovation and customized solutions are driving the market growth.

The FPGA PCIe Accelerator Card integrates Field-Programmable Gate Arrays (FPGAs) with a PCIe interface to deliver a highly adaptable and customizable hardware platform for processing complex data streams at high speeds. This card offers the capability to implement custom logic and parallel processing, enabling efficient data throughput and real-time response, while also supporting various interface standards and protocols for seamless integration into existing systems.

United States market for FPGA PCIe Accelerator 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 Accelerator 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 Accelerator 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 Accelerator 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 Accelerator Card Industry Forecast” looks at past sales and reviews total world FPGA PCIe Accelerator Card sales in 2025, providing a comprehensive analysis by region and market sector of projected FPGA PCIe Accelerator Card sales for 2026 through 2032. With FPGA PCIe Accelerator 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 Accelerator Card industry.

This Insight Report provides a comprehensive analysis of the global FPGA PCIe Accelerator 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 Accelerator 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 Accelerator Card market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of FPGA PCIe Accelerator 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 Accelerator Card market?

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

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

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

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

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