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Global PCIe Image Acquisition Card Market Growth 2026-2032

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Abstracts

The global PCIe Image Acquisition Card market size is predicted to grow from US$ 245 million in 2025 to US$ 395 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

In 2024, global PCIe Image Acquisition Card reached approximately 260k units, with an average global market price of around US$ 900 per unit. A PCIe image acquisition card is a high-speed video data acquisition and processing device based on the PCI Express bus. By inserting into a PCIe slot on a computer or server motherboard, it enables high-speed acquisition, transmission, encoding, and real-time processing of images from sources such as cameras, industrial cameras, and medical imaging equipment. Its core consists of a video interface module, data transmission circuitry, an image processing chip (such as an FPGA, DSP, or ASIC), and driver software, supporting real-time processing of multiple high-definition video streams, ultra-high-speed industrial cameras, and AI vision algorithms.

The upstream sector mainly consists of FPGAs, ISPs, interface chips (CXP, Camera Link, HDMI, SDI), high-speed ADCs/DACs, DDR/Flash, PCBs, and high-speed connectors. Major suppliers include Intel, AMD, Onsemi, ADI, TI, Micron, Samsung, Samtec, and Molex.

Midstream companies are responsible for the hardware design of the capture cards, FPGA architecture development, interface drivers, image algorithm optimization, and system integration. Representative companies include Teledyne DALSA, Zebra, Basler, Advantech, and ADLINK.

Downstream companies include machine vision companies, industrial automation

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companies, medical imaging equipment manufacturers, and intelligent transportation and security system providers, such as Keyence, Hikvision, Bosch, ON Semiconductor, Canon Medical, GE Healthcare, Tesla, and various manufacturing enterprises.

The annual production capacity of a single-line PCIe Image Acquisition Card is approximately 7,000 units, with a gross profit margin of approximately 35%-50%.

United States market for PCIe Image Acquisition 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 PCIe Image Acquisition 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 PCIe Image Acquisition 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 PCIe Image Acquisition Card players cover Solectrix, Zebra, Advantech, Adlink, Neousys Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

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

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

Market Segmentation

Segmentation by Type:

Single Channel

Dual Channel

Quad Channel

Others

Segmentation by Data Bandwidth:

PCIe x1

PCIe x2

PCIe x4

PCIe x8

Others

Segmentation by Clarity:

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Standard Definition Capture Card

High Definition Capture Card

Ultra-High Definition Capture Card

Others

Segmentation by Application:

Machine Vision Inspection

Industrial Automation

Security Monitoring

Medical Imaging

Automotive

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- 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.

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Solectrix

Zebra

Advantech

Adlink

Neousys Technology

Active Silicon

Cognex

Basler

Epiphan

Blackmagic

Teledyne DALSA

Elgato

EPIX

Prodrive Technologies

Aili-Light

Neousys

Key Questions Addressed in this Report

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

What factors are driving PCIe Image Acquisition Card market growth, globally

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and by region?

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

How do PCIe Image Acquisition Card market opportunities vary by end market size?

How does PCIe Image Acquisition Card break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global PCIe Image Acquisition Card Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for PCIe Image Acquisition Card by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for PCIe Image Acquisition Card by Country/Region, 2021, 2025 & 2032
2.2 PCIe Image Acquisition Card Segment by Type
  2.2.1 Single Channel
  2.2.2 Dual Channel
  2.2.3 Quad Channel
  2.2.4 Others
  2.2.5 PCIe Image Acquisition Card Sales by Type
    2.2.5.1 Global PCIe Image Acquisition Card Sales Market Share by Type (2021-2026)
    2.2.5.2 Global PCIe Image Acquisition Card Revenue and Market Share by Type (2021-2026)
    2.2.5.3 Global PCIe Image Acquisition Card Sale Price by Type (2021-2026)
2.3 PCIe Image Acquisition Card Segment by Data Bandwidth
  2.3.1 PCIe x1
  2.3.2 PCIe x2
  2.3.3 PCIe x4
  2.3.4 PCIe x8
  2.3.5 Others
  2.3.6 PCIe Image Acquisition Card Sales by Data Bandwidth

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2.3.6.1 Global PCIe Image Acquisition Card Sales Market Share by Data Bandwidth (2021-2026)
2.3.6.2 Global PCIe Image Acquisition Card Revenue and Market Share by Data Bandwidth (2021-2026)
2.3.6.3 Global PCIe Image Acquisition Card Sale Price by Data Bandwidth (2021-2026)
2.4 PCIe Image Acquisition Card Segment by Clarity
2.4.1 Standard Definition Capture Card
2.4.2 High Definition Capture Card
2.4.3 Ultra-High Definition Capture Card
2.4.4 Others
2.4.5 PCIe Image Acquisition Card Sales by Clarity
2.4.5.1 Global PCIe Image Acquisition Card Sales Market Share by Clarity (2021-2026)
2.4.5.2 Global PCIe Image Acquisition Card Revenue and Market Share by Clarity (2021-2026)
2.4.5.3 Global PCIe Image Acquisition Card Sale Price by Clarity (2021-2026)
2.5 PCIe Image Acquisition Card Segment by Application
2.5.1 Machine Vision Inspection
2.5.2 Industrial Automation
2.5.3 Security Monitoring
2.5.4 Medical Imaging
2.5.5 Automotive
2.5.6 Others
2.5.7 PCIe Image Acquisition Card Sales by Application
2.5.7.1 Global PCIe Image Acquisition Card Sale Market Share by Application (2021-2026)
2.5.7.2 Global PCIe Image Acquisition Card Revenue and Market Share by Application (2021-2026)
2.5.7.3 Global PCIe Image Acquisition Card Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global PCIe Image Acquisition Card Breakdown Data by Company
3.1.1 Global PCIe Image Acquisition Card Annual Sales by Company (2021-2026)
3.1.2 Global PCIe Image Acquisition Card Sales Market Share by Company (2021-2026)
3.2 Global PCIe Image Acquisition Card Annual Revenue by Company (2021-2026)
3.2.1 Global PCIe Image Acquisition Card Revenue by Company (2021-2026)

+357 96 030922
info@marketpublishers.com

3.2.2 Global PCIe Image Acquisition Card Revenue Market Share by Company (2021-2026)
3.3 Global PCIe Image Acquisition Card Sale Price by Company
3.4 Key Manufacturers PCIe Image Acquisition Card Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers PCIe Image Acquisition Card Product Location Distribution
3.4.2 Players PCIe Image Acquisition Card Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PCIE IMAGE ACQUISITION CARD BY GEOGRAPHIC REGION

4.1 World Historic PCIe Image Acquisition Card Market Size by Geographic Region (2021-2026)
4.1.1 Global PCIe Image Acquisition Card Annual Sales by Geographic Region (2021-2026)
4.1.2 Global PCIe Image Acquisition Card Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic PCIe Image Acquisition Card Market Size by Country/Region (2021-2026)
4.2.1 Global PCIe Image Acquisition Card Annual Sales by Country/Region (2021-2026)
4.2.2 Global PCIe Image Acquisition Card Annual Revenue by Country/Region (2021-2026)
4.3 Americas PCIe Image Acquisition Card Sales Growth
4.4 APAC PCIe Image Acquisition Card Sales Growth
4.5 Europe PCIe Image Acquisition Card Sales Growth
4.6 Middle East & Africa PCIe Image Acquisition Card Sales Growth

5 AMERICAS

5.1 Americas PCIe Image Acquisition Card Sales by Country
5.1.1 Americas PCIe Image Acquisition Card Sales by Country (2021-2026)
5.1.2 Americas PCIe Image Acquisition Card Revenue by Country (2021-2026)
5.2 Americas PCIe Image Acquisition Card Sales by Type (2021-2026)

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5.3 Americas PCIe Image Acquisition Card Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC PCIe Image Acquisition Card Sales by Region
  6.1.1 APAC PCIe Image Acquisition Card Sales by Region (2021-2026)
  6.1.2 APAC PCIe Image Acquisition Card Revenue by Region (2021-2026)
6.2 APAC PCIe Image Acquisition Card Sales by Type (2021-2026)
6.3 APAC PCIe Image Acquisition Card Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe PCIe Image Acquisition Card by Country
  7.1.1 Europe PCIe Image Acquisition Card Sales by Country (2021-2026)
  7.1.2 Europe PCIe Image Acquisition Card Revenue by Country (2021-2026)
7.2 Europe PCIe Image Acquisition Card Sales by Type (2021-2026)
7.3 Europe PCIe Image Acquisition Card Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa PCIe Image Acquisition Card by Country
  8.1.1 Middle East & Africa PCIe Image Acquisition Card Sales by Country (2021-2026)
  8.1.2 Middle East & Africa PCIe Image Acquisition Card Revenue by Country

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(2021-2026)
8.2 Middle East & Africa PCIe Image Acquisition Card Sales by Type (2021-2026)
8.3 Middle East & Africa PCIe Image Acquisition Card Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of PCIe Image Acquisition Card
10.3 Manufacturing Process Analysis of PCIe Image Acquisition Card
10.4 Industry Chain Structure of PCIe Image Acquisition Card

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 PCIe Image Acquisition Card Distributors
11.3 PCIe Image Acquisition Card Customer

12 WORLD FORECAST REVIEW FOR PCIE IMAGE ACQUISITION CARD BY GEOGRAPHIC REGION

12.1 Global PCIe Image Acquisition Card Market Size Forecast by Region
  12.1.1 Global PCIe Image Acquisition Card Forecast by Region (2027-2032)
  12.1.2 Global PCIe Image Acquisition Card Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)

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12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global PCIe Image Acquisition Card Forecast by Type (2027-2032)
12.7 Global PCIe Image Acquisition Card Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Solectrix
  13.1.1 Solectrix Company Information
  13.1.2 Solectrix PCIe Image Acquisition Card Product Portfolios and Specifications
  13.1.3 Solectrix PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Solectrix Main Business Overview
  13.1.5 Solectrix Latest Developments
13.2 Zebra
  13.2.1 Zebra Company Information
  13.2.2 Zebra PCIe Image Acquisition Card Product Portfolios and Specifications
  13.2.3 Zebra PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
  13.2.4 Zebra Main Business Overview
  13.2.5 Zebra Latest Developments
13.3 Advantech
  13.3.1 Advantech Company Information
  13.3.2 Advantech PCIe Image Acquisition Card Product Portfolios and Specifications
  13.3.3 Advantech PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
  13.3.4 Advantech Main Business Overview
  13.3.5 Advantech Latest Developments
13.4 Adlink
  13.4.1 Adlink Company Information
  13.4.2 Adlink PCIe Image Acquisition Card Product Portfolios and Specifications
  13.4.3 Adlink PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
  13.4.4 Adlink Main Business Overview
  13.4.5 Adlink Latest Developments
13.5 Neousys Technology
  13.5.1 Neousys Technology Company Information
  13.5.2 Neousys Technology PCIe Image Acquisition Card Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.5.3 Neousys Technology PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Neousys Technology Main Business Overview
13.5.5 Neousys Technology Latest Developments
13.6 Active Silicon
13.6.1 Active Silicon Company Information
13.6.2 Active Silicon PCIe Image Acquisition Card Product Portfolios and Specifications
13.6.3 Active Silicon PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Active Silicon Main Business Overview
13.6.5 Active Silicon Latest Developments
13.7 Cognex
13.7.1 Cognex Company Information
13.7.2 Cognex PCIe Image Acquisition Card Product Portfolios and Specifications
13.7.3 Cognex PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Cognex Main Business Overview
13.7.5 Cognex Latest Developments
13.8 Basler
13.8.1 Basler Company Information
13.8.2 Basler PCIe Image Acquisition Card Product Portfolios and Specifications
13.8.3 Basler PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Basler Main Business Overview
13.8.5 Basler Latest Developments
13.9 Epiphan
13.9.1 Epiphan Company Information
13.9.2 Epiphan PCIe Image Acquisition Card Product Portfolios and Specifications
13.9.3 Epiphan PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Epiphan Main Business Overview
13.9.5 Epiphan Latest Developments
13.10 Blackmagic
13.10.1 Blackmagic Company Information
13.10.2 Blackmagic PCIe Image Acquisition Card Product Portfolios and Specifications
13.10.3 Blackmagic PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Blackmagic Main Business Overview

+357 96 030922
info@marketpublishers.com

13.10.5 Blackmagic Latest Developments
13.11 Teledyne DALSA
13.11.1 Teledyne DALSA Company Information
13.11.2 Teledyne DALSA PCIe Image Acquisition Card Product Portfolios and Specifications
13.11.3 Teledyne DALSA PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Teledyne DALSA Main Business Overview
13.11.5 Teledyne DALSA Latest Developments
13.12 Elgato
13.12.1 Elgato Company Information
13.12.2 Elgato PCIe Image Acquisition Card Product Portfolios and Specifications
13.12.3 Elgato PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Elgato Main Business Overview
13.12.5 Elgato Latest Developments
13.13 EPIX
13.13.1 EPIX Company Information
13.13.2 EPIX PCIe Image Acquisition Card Product Portfolios and Specifications
13.13.3 EPIX PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 EPIX Main Business Overview
13.13.5 EPIX Latest Developments
13.14 Prodrive Technologies
13.14.1 Prodrive Technologies Company Information
13.14.2 Prodrive Technologies PCIe Image Acquisition Card Product Portfolios and Specifications
13.14.3 Prodrive Technologies PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Prodrive Technologies Main Business Overview
13.14.5 Prodrive Technologies Latest Developments
13.15 Aili-Light
13.15.1 Aili-Light Company Information
13.15.2 Aili-Light PCIe Image Acquisition Card Product Portfolios and Specifications
13.15.3 Aili-Light PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 Aili-Light Main Business Overview
13.15.5 Aili-Light Latest Developments
13.16 Neousys

+357 96 030922
info@marketpublishers.com

13.16.1 Neousys Company Information
13.16.2 Neousys PCIe Image Acquisition Card Product Portfolios and Specifications
13.16.3 Neousys PCIe Image Acquisition Card Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Neousys Main Business Overview
13.16.5 Neousys Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. PCIe Image Acquisition Card Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. PCIe Image Acquisition Card Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Single Channel
Table 4. Major Players of Dual Channel
Table 5. Major Players of Quad Channel
Table 6. Major Players of Others
Table 7. Global PCIe Image Acquisition Card Sales by Type (2021-2026) & (K Units)
Table 8. Global PCIe Image Acquisition Card Sales Market Share by Type (2021-2026)
Table 9. Global PCIe Image Acquisition Card Revenue by Type (2021-2026) & ($ million)
Table 10. Global PCIe Image Acquisition Card Revenue Market Share by Type (2021-2026)
Table 11. Global PCIe Image Acquisition Card Sale Price by Type (2021-2026) & (US$/Unit)
Table 12. Major Players of PCIe x1
Table 13. Major Players of PCIe x2
Table 14. Major Players of PCIe x4
Table 15. Major Players of PCIe x8
Table 16. Major Players of Others
Table 17. Global PCIe Image Acquisition Card Sales by Data Bandwidth (2021-2026) & (K Units)
Table 18. Global PCIe Image Acquisition Card Sales Market Share by Data Bandwidth (2021-2026)
Table 19. Global PCIe Image Acquisition Card Revenue by Data Bandwidth (2021-2026) & ($ million)
Table 20. Global PCIe Image Acquisition Card Revenue Market Share by Data Bandwidth (2021-2026)
Table 21. Global PCIe Image Acquisition Card Sale Price by Data Bandwidth (2021-2026) & (US$/Unit)
Table 22. Major Players of Standard Definition Capture Card
Table 23. Major Players of High Definition Capture Card
Table 24. Major Players of Ultra-High Definition Capture Card
Table 25. Major Players of Others

+357 96 030922
info@marketpublishers.com

Table 26. Global PCIe Image Acquisition Card Sales by Clarity (2021-2026) & (K Units)
Table 27. Global PCIe Image Acquisition Card Sales Market Share by Clarity (2021-2026)
Table 28. Global PCIe Image Acquisition Card Revenue by Clarity (2021-2026) & ($ million)
Table 29. Global PCIe Image Acquisition Card Revenue Market Share by Clarity (2021-2026)
Table 30. Global PCIe Image Acquisition Card Sale Price by Clarity (2021-2026) & (US$/Unit)
Table 31. Global PCIe Image Acquisition Card Sale by Application (2021-2026) & (K Units)
Table 32. Global PCIe Image Acquisition Card Sale Market Share by Application (2021-2026)
Table 33. Global PCIe Image Acquisition Card Revenue by Application (2021-2026) & ($ million)
Table 34. Global PCIe Image Acquisition Card Revenue Market Share by Application (2021-2026)
Table 35. Global PCIe Image Acquisition Card Sale Price by Application (2021-2026) & (US$/Unit)
Table 36. Global PCIe Image Acquisition Card Sales by Company (2021-2026) & (K Units)
Table 37. Global PCIe Image Acquisition Card Sales Market Share by Company (2021-2026)
Table 38. Global PCIe Image Acquisition Card Revenue by Company (2021-2026) & ($ millions)
Table 39. Global PCIe Image Acquisition Card Revenue Market Share by Company (2021-2026)
Table 40. Global PCIe Image Acquisition Card Sale Price by Company (2021-2026) & (US$/Unit)
Table 41. Key Manufacturers PCIe Image Acquisition Card Producing Area Distribution and Sales Area
Table 42. Players PCIe Image Acquisition Card Products Offered
Table 43. PCIe Image Acquisition Card Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 44. New Products and Potential Entrants
Table 45. Market M&A Activity & Strategy
Table 46. Global PCIe Image Acquisition Card Sales by Geographic Region (2021-2026) & (K Units)
Table 47. Global PCIe Image Acquisition Card Sales Market Share Geographic Region

+357 96 030922
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(2021-2026)
Table 48. Global PCIe Image Acquisition Card Revenue by Geographic Region (2021-2026) & ($ millions)
Table 49. Global PCIe Image Acquisition Card Revenue Market Share by Geographic Region (2021-2026)
Table 50. Global PCIe Image Acquisition Card Sales by Country/Region (2021-2026) & (K Units)
Table 51. Global PCIe Image Acquisition Card Sales Market Share by Country/Region (2021-2026)
Table 52. Global PCIe Image Acquisition Card Revenue by Country/Region (2021-2026) & ($ millions)
Table 53. Global PCIe Image Acquisition Card Revenue Market Share by Country/Region (2021-2026)
Table 54. Americas PCIe Image Acquisition Card Sales by Country (2021-2026) & (K Units)
Table 55. Americas PCIe Image Acquisition Card Sales Market Share by Country (2021-2026)
Table 56. Americas PCIe Image Acquisition Card Revenue by Country (2021-2026) & ($ millions)
Table 57. Americas PCIe Image Acquisition Card Sales by Type (2021-2026) & (K Units)
Table 58. Americas PCIe Image Acquisition Card Sales by Application (2021-2026) & (K Units)
Table 59. APAC PCIe Image Acquisition Card Sales by Region (2021-2026) & (K Units)
Table 60. APAC PCIe Image Acquisition Card Sales Market Share by Region (2021-2026)
Table 61. APAC PCIe Image Acquisition Card Revenue by Region (2021-2026) & ($ millions)
Table 62. APAC PCIe Image Acquisition Card Sales by Type (2021-2026) & (K Units)
Table 63. APAC PCIe Image Acquisition Card Sales by Application (2021-2026) & (K Units)
Table 64. Europe PCIe Image Acquisition Card Sales by Country (2021-2026) & (K Units)
Table 65. Europe PCIe Image Acquisition Card Revenue by Country (2021-2026) & ($ millions)
Table 66. Europe PCIe Image Acquisition Card Sales by Type (2021-2026) & (K Units)
Table 67. Europe PCIe Image Acquisition Card Sales by Application (2021-2026) & (K Units)
Table 68. Middle East & Africa PCIe Image Acquisition Card Sales by Country

+357 96 030922
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(2021-2026) & (K Units)
Table 69. Middle East & Africa PCIe Image Acquisition Card Revenue Market Share by Country (2021-2026)
Table 70. Middle East & Africa PCIe Image Acquisition Card Sales by Type (2021-2026) & (K Units)
Table 71. Middle East & Africa PCIe Image Acquisition Card Sales by Application (2021-2026) & (K Units)
Table 72. Key Market Drivers & Growth Opportunities of PCIe Image Acquisition Card
Table 73. Key Market Challenges & Risks of PCIe Image Acquisition Card
Table 74. Key Industry Trends of PCIe Image Acquisition Card
Table 75. PCIe Image Acquisition Card Raw Material
Table 76. Key Suppliers of Raw Materials
Table 77. PCIe Image Acquisition Card Distributors List
Table 78. PCIe Image Acquisition Card Customer List
Table 79. Global PCIe Image Acquisition Card Sales Forecast by Region (2027-2032) & (K Units)
Table 80. Global PCIe Image Acquisition Card Revenue Forecast by Region (2027-2032) & ($ millions)
Table 81. Americas PCIe Image Acquisition Card Sales Forecast by Country (2027-2032) & (K Units)
Table 82. Americas PCIe Image Acquisition Card Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. APAC PCIe Image Acquisition Card Sales Forecast by Region (2027-2032) & (K Units)
Table 84. APAC PCIe Image Acquisition Card Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 85. Europe PCIe Image Acquisition Card Sales Forecast by Country (2027-2032) & (K Units)
Table 86. Europe PCIe Image Acquisition Card Revenue Forecast by Country (2027-2032) & ($ millions)
Table 87. Middle East & Africa PCIe Image Acquisition Card Sales Forecast by Country (2027-2032) & (K Units)
Table 88. Middle East & Africa PCIe Image Acquisition Card Revenue Forecast by Country (2027-2032) & ($ millions)
Table 89. Global PCIe Image Acquisition Card Sales Forecast by Type (2027-2032) & (K Units)
Table 90. Global PCIe Image Acquisition Card Revenue Forecast by Type (2027-2032) & ($ millions)
Table 91. Global PCIe Image Acquisition Card Sales Forecast by Application

+357 96 030922
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(2027-2032) & (K Units)
Table 92. Global PCIe Image Acquisition Card Revenue Forecast by Application (2027-2032) & ($ millions)
Table 93. Solectrix Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 94. Solectrix PCIe Image Acquisition Card Product Portfolios and Specifications
Table 95. Solectrix PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 96. Solectrix Main Business
Table 97. Solectrix Latest Developments
Table 98. Zebra Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 99. Zebra PCIe Image Acquisition Card Product Portfolios and Specifications
Table 100. Zebra PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 101. Zebra Main Business
Table 102. Zebra Latest Developments
Table 103. Advantech Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 104. Advantech PCIe Image Acquisition Card Product Portfolios and Specifications
Table 105. Advantech PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 106. Advantech Main Business
Table 107. Advantech Latest Developments
Table 108. Adlink Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 109. Adlink PCIe Image Acquisition Card Product Portfolios and Specifications
Table 110. Adlink PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 111. Adlink Main Business
Table 112. Adlink Latest Developments
Table 113. Neousys Technology Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 114. Neousys Technology PCIe Image Acquisition Card Product Portfolios and Specifications
Table 115. Neousys Technology PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 116. Neousys Technology Main Business

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Table 117. Neousys Technology Latest Developments
Table 118. Active Silicon Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 119. Active Silicon PCIe Image Acquisition Card Product Portfolios and Specifications
Table 120. Active Silicon PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 121. Active Silicon Main Business
Table 122. Active Silicon Latest Developments
Table 123. Cognex Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 124. Cognex PCIe Image Acquisition Card Product Portfolios and Specifications
Table 125. Cognex PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 126. Cognex Main Business
Table 127. Cognex Latest Developments
Table 128. Basler Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 129. Basler PCIe Image Acquisition Card Product Portfolios and Specifications
Table 130. Basler PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 131. Basler Main Business
Table 132. Basler Latest Developments
Table 133. Epiphan Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 134. Epiphan PCIe Image Acquisition Card Product Portfolios and Specifications
Table 135. Epiphan PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 136. Epiphan Main Business
Table 137. Epiphan Latest Developments
Table 138. Blackmagic Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 139. Blackmagic PCIe Image Acquisition Card Product Portfolios and Specifications
Table 140. Blackmagic PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 141. Blackmagic Main Business
Table 142. Blackmagic Latest Developments
Table 143. Teledyne DALSA Basic Information, PCIe Image Acquisition Card

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info@marketpublishers.com

Manufacturing Base, Sales Area and Its Competitors
Table 144. Teledyne DALSA PCIe Image Acquisition Card Product Portfolios and Specifications
Table 145. Teledyne DALSA PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 146. Teledyne DALSA Main Business
Table 147. Teledyne DALSA Latest Developments
Table 148. Elgato Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 149. Elgato PCIe Image Acquisition Card Product Portfolios and Specifications
Table 150. Elgato PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 151. Elgato Main Business
Table 152. Elgato Latest Developments
Table 153. EPIX Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 154. EPIX PCIe Image Acquisition Card Product Portfolios and Specifications
Table 155. EPIX PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 156. EPIX Main Business
Table 157. EPIX Latest Developments
Table 158. Prodrive Technologies Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 159. Prodrive Technologies PCIe Image Acquisition Card Product Portfolios and Specifications
Table 160. Prodrive Technologies PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 161. Prodrive Technologies Main Business
Table 162. Prodrive Technologies Latest Developments
Table 163. Aili-Light Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 164. Aili-Light PCIe Image Acquisition Card Product Portfolios and Specifications
Table 165. Aili-Light PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 166. Aili-Light Main Business
Table 167. Aili-Light Latest Developments
Table 168. Neousys Basic Information, PCIe Image Acquisition Card Manufacturing Base, Sales Area and Its Competitors
Table 169. Neousys PCIe Image Acquisition Card Product Portfolios and Specifications

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info@marketpublishers.com

Table 170. Neousys PCIe Image Acquisition Card Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 171. Neousys Main Business
Table 172. Neousys Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of PCIe Image Acquisition Card
Figure 2. PCIe Image Acquisition Card Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global PCIe Image Acquisition Card Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global PCIe Image Acquisition Card Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. PCIe Image Acquisition Card Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. PCIe Image Acquisition Card Sales Market Share by Country/Region (2025)
Figure 10. PCIe Image Acquisition Card Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Single Channel
Figure 12. Product Picture of Dual Channel
Figure 13. Product Picture of Quad Channel
Figure 14. Product Picture of Others
Figure 15. Global PCIe Image Acquisition Card Sales Market Share by Type in 2026
Figure 16. Global PCIe Image Acquisition Card Revenue Market Share by Type (2021-2026)
Figure 17. Product Picture of PCIe x1
Figure 18. Product Picture of PCIe x2
Figure 19. Product Picture of PCIe x4
Figure 20. Product Picture of PCIe x8
Figure 21. Product Picture of Others
Figure 22. Global PCIe Image Acquisition Card Sales Market Share by Data Bandwidth in 2026
Figure 23. Global PCIe Image Acquisition Card Revenue Market Share by Data Bandwidth (2021-2026)
Figure 24. Product Picture of Standard Definition Capture Card
Figure 25. Product Picture of High Definition Capture Card
Figure 26. Product Picture of Ultra-High Definition Capture Card
Figure 27. Product Picture of Others
Figure 28. Global PCIe Image Acquisition Card Sales Market Share by Clarity in 2026
Figure 29. Global PCIe Image Acquisition Card Revenue Market Share by Clarity

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(2021-2026)
Figure 30. PCIe Image Acquisition Card Consumed in Machine Vision Inspection
Figure 31. Global PCIe Image Acquisition Card Market: Machine Vision Inspection (2021-2026) & (K Units)
Figure 32. PCIe Image Acquisition Card Consumed in Industrial Automation
Figure 33. Global PCIe Image Acquisition Card Market: Industrial Automation (2021-2026) & (K Units)
Figure 34. PCIe Image Acquisition Card Consumed in Security Monitoring
Figure 35. Global PCIe Image Acquisition Card Market: Security Monitoring (2021-2026) & (K Units)
Figure 36. PCIe Image Acquisition Card Consumed in Medical Imaging
Figure 37. Global PCIe Image Acquisition Card Market: Medical Imaging (2021-2026) & (K Units)
Figure 38. PCIe Image Acquisition Card Consumed in Automotive
Figure 39. Global PCIe Image Acquisition Card Market: Automotive (2021-2026) & (K Units)
Figure 40. PCIe Image Acquisition Card Consumed in Others
Figure 41. Global PCIe Image Acquisition Card Market: Others (2021-2026) & (K Units)
Figure 42. Global PCIe Image Acquisition Card Sale Market Share by Application (2025)
Figure 43. Global PCIe Image Acquisition Card Revenue Market Share by Application in 2026
Figure 44. PCIe Image Acquisition Card Sales by Company in 2026 (K Units)
Figure 45. Global PCIe Image Acquisition Card Sales Market Share by Company in 2026
Figure 46. PCIe Image Acquisition Card Revenue by Company in 2026 ($ millions)
Figure 47. Global PCIe Image Acquisition Card Revenue Market Share by Company in 2026
Figure 48. Global PCIe Image Acquisition Card Sales Market Share by Geographic Region (2021-2026)
Figure 49. Global PCIe Image Acquisition Card Revenue Market Share by Geographic Region in 2026
Figure 50. Americas PCIe Image Acquisition Card Sales 2021-2026 (K Units)
Figure 51. Americas PCIe Image Acquisition Card Revenue 2021-2026 ($ millions)
Figure 52. APAC PCIe Image Acquisition Card Sales 2021-2026 (K Units)
Figure 53. APAC PCIe Image Acquisition Card Revenue 2021-2026 ($ millions)
Figure 54. Europe PCIe Image Acquisition Card Sales 2021-2026 (K Units)
Figure 55. Europe PCIe Image Acquisition Card Revenue 2021-2026 ($ millions)
Figure 56. Middle East & Africa PCIe Image Acquisition Card Sales 2021-2026 (K Units)

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Figure 57. Middle East & Africa PCIe Image Acquisition Card Revenue 2021-2026 ($ millions)
Figure 58. Americas PCIe Image Acquisition Card Sales Market Share by Country in 2026
Figure 59. Americas PCIe Image Acquisition Card Revenue Market Share by Country (2021-2026)
Figure 60. Americas PCIe Image Acquisition Card Sales Market Share by Type (2021-2026)
Figure 61. Americas PCIe Image Acquisition Card Sales Market Share by Application (2021-2026)
Figure 62. United States PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 63. Canada PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 64. Mexico PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 65. Brazil PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 66. APAC PCIe Image Acquisition Card Sales Market Share by Region in 2026
Figure 67. APAC PCIe Image Acquisition Card Revenue Market Share by Region (2021-2026)
Figure 68. APAC PCIe Image Acquisition Card Sales Market Share by Type (2021-2026)
Figure 69. APAC PCIe Image Acquisition Card Sales Market Share by Application (2021-2026)
Figure 70. China PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 71. Japan PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 72. South Korea PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 73. Southeast Asia PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 74. India PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 75. Australia PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 76. China Taiwan PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 77. Europe PCIe Image Acquisition Card Sales Market Share by Country in 2026
Figure 78. Europe PCIe Image Acquisition Card Revenue Market Share by Country (2021-2026)
Figure 79. Europe PCIe Image Acquisition Card Sales Market Share by Type

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(2021-2026)
Figure 80. Europe PCIe Image Acquisition Card Sales Market Share by Application (2021-2026)
Figure 81. Germany PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 82. France PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 83. UK PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 84. Italy PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 85. Russia PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 86. Middle East & Africa PCIe Image Acquisition Card Sales Market Share by Country (2021-2026)
Figure 87. Middle East & Africa PCIe Image Acquisition Card Sales Market Share by Type (2021-2026)
Figure 88. Middle East & Africa PCIe Image Acquisition Card Sales Market Share by Application (2021-2026)
Figure 89. Egypt PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 90. South Africa PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 91. Israel PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 92. Turkey PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 93. GCC Countries PCIe Image Acquisition Card Revenue Growth 2021-2026 ($ millions)
Figure 94. Manufacturing Cost Structure Analysis of PCIe Image Acquisition Card in 2026
Figure 95. Manufacturing Process Analysis of PCIe Image Acquisition Card
Figure 96. Industry Chain Structure of PCIe Image Acquisition Card
Figure 97. Channels of Distribution
Figure 98. Global PCIe Image Acquisition Card Sales Market Forecast by Region (2027-2032)
Figure 99. Global PCIe Image Acquisition Card Revenue Market Share Forecast by Region (2027-2032)
Figure 100. Global PCIe Image Acquisition Card Sales Market Share Forecast by Type (2027-2032)
Figure 101. Global PCIe Image Acquisition Card Revenue Market Share Forecast by Type (2027-2032)
Figure 102. Global PCIe Image Acquisition Card Sales Market Share Forecast by Application (2027-2032)
Figure 103. Global PCIe Image Acquisition Card Revenue Market Share Forecast by Application (2027-2032)

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