

Report Information

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Hardware Acceleration Market Research Report - Global Forecast till 2032

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Description:

Global Hardware Acceleration Market Overview:

Hardware Acceleration Market Size was valued at USD 1.9 Billion in 2022. The hardware acceleration market industry is projected to grow from USD 2.87 Billion in 2023 to USD 78.472 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 51.20% during the forecast period (2023 - 2032). Major market drivers anticipated to fuel market expansion in the projected period include the rising demand for hardware acceleration for better task execution, video encoding, & decoding, and the expanding use of hardware acceleration tools in deep learning or machine learning applications.

Global Hardware Acceleration Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Hardware Acceleration Market Trends

- **Adoption of AI Technology at a Large Scale in Hardware Acceleration to Drive Market Growth**

The hardware accelerator market is predicted to experience the fastest growth in artificial intelligence. Robot algorithms, the Internet of Things, and other applications that require a lot of data or sensor-driven work are all examples of artificial intelligence applications that can be accelerated using hardware acceleration tools. These applications include machine vision, machine learning, and artificial neural networks. Intending to incorporate FPGAs in server CPUs, which would be able to accelerate both general-purpose tasks and AI, Intel acquired Altera. Accelerators for artificial intelligence were ultimately greatly influenced by this, and they are anticipated to fuel market CAGR over the ensuing years.

These days, graphic cards' hardware acceleration can assist users in any supported applications, including video playback, games, designing, or any applications that call for quicker mathematical operations, like calculating. Consequently, it is anticipated to open up business potential for hardware acceleration. GPU hardware acceleration has gained popularity in AI-related applications. It has continued to advance in areas like deep learning for reasoning and learning on systems like autonomous vehicles, agricultural robots, military robots, and others. Most of the time, GPU hardware acceleration can guarantee fluid streaming and browsing, saving the user's time and energy. In the end, this fosters the expansion of the hardware acceleration sector. Furthermore, compared to the general purpose processing unit, the sound and signal processing units offer superior sound and signal quality due to hardware acceleration. Thus, these elements support the expansion of the hardware acceleration sector. Thus, driving the hardware acceleration market revenue.

Hardware Acceleration Market Segment Insights:

Hardware Acceleration Type Insights

The Hardware Acceleration Market segmentation, based on type includes graphics processing unit, video processing unit, AI accelerator, regular expression accelerator, cryptographic accelerator and others. The graphics processing unit segment dominated the market. The rise is attributed to the widespread use of GPU in several industries. Customers gain from GPU-enabled hardware acceleration in all supported programs, including watching videos, playing games, or performing any activity that involves quick mathematical computations. In the browser, it enables much smoother browsing and media viewing, which helps drive market development. In 2021, GPU hardware acceleration for AI tasks became popular, and it is currently expanding in fields like deep learning for inference and training in gadgets like autonomous cars, industrial robots, and more.

Hardware Acceleration Application Insights

The Hardware Acceleration Market segmentation, based on application, includes deep learning training, public cloud inference, enterprise inference and others. The deep learning training category generated the most income. In the aforementioned forecast period, the market for hardware acceleration is anticipated to grow due to the rising demand for hardware acceleration for video encoding and decoding as well as the widespread use of hardware acceleration tools in deep learning training applications.

Figure 1: Hardware Acceleration Market, by Application, 2022 & 2032 (USD Billion)

Hardware Acceleration Market, by Application, 2022 & 2032

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Hardware Acceleration End User Insights

The Hardware Acceleration Market segmentation, based on end user, includes IT and Telecommunication, BFSI, Retail, Hospitality, LogisticsAutomotive, Healthcare, Energy and Others. The BFSI category generated the most income. The need for hardware accelerators is expected to be very high in the banking and financial services, information technology, and technology sectors because of the ongoing desire for better performance in this industry. The present investments in the telecom and IT sectors in developing nations like China & India are also projected to increase demand for hardware accelerators in these nations.

Hardware Acceleration Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. The North American hardware acceleration market area will dominate this market. The growth is evidence of the region's firms' greater use of cloud computing technology. The increased use of hardware acceleration in various data centers is another factor promoting the region's growth. Additionally, a select few industry participants, including Xilinx, Intel, NVIDIA, and other well-known organisations, are promoting the general expansion of the hardware acceleration market.

Further, the major countries studied in the market report are The US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: Hardware Acceleration Market SHARE BY REGION 2022 (USD Billion)

Hardware Acceleration Market SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe hardware acceleration market accounts for the second-largest market share due to the growing adoption of contemporary technologies including artificial intelligence (AI), machine learning, and IoT-based systems. A few of the main forces behind the growth of the hardware acceleration sector are the increasing need for productivity and performance efficiency. Furthermore, the market for hardware acceleration is growing quickly due to the booming telecommunications and information technology industries. Further, the German hardware acceleration market held the largest market share, and the UK hardware acceleration market was the fastest growing market in the European region

The Asia-Pacific Hardware acceleration Market is expected to grow at the fastest CAGR from 2023 to 2032 due to the expansion of the semiconductor and information technology industries in nations like China, Japan, and India. Some of the major factors driving the growth of the hardware acceleration market are the rising desire for productivity and performance efficiency. Moreover, China's hardware acceleration market held the largest market share, and the Indian hardware acceleration market was the fastest growing market in the Asia-Pacific region.

Hardware Acceleration Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development in order to expand their product lines, which will help the hardware acceleration market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their global footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, hardware acceleration industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the global hardware acceleration industry to benefit clients and increase the market sector. In recent years, the hardware acceleration industry has offered some of the most significant advantages to market. Major players in the hardware acceleration market attempting to increase market demand by investing in research and development operations include NVIDIA Corporation (US), Intel Corporation (US), Advanced Micro Devices Inc. (US), Achronix Semiconductor (US), Oracle Corporation (US), Xilinx Inc. (US), IBM Corporation (US), Hewlett Packard Enterprise Company Dell (US), Lenovo Group Limited (China), Fujitsu Ltd (Japan), Cisco Systems Inc. (US), VMware Inc. (US), Enyx (France), HAX (US), Revvx (India), AlphaLab Gear (US), HWTrek (Taiwan), Wazer (China) and Teradici (Canada).

NVIDIA Corp. (NVIDIA) is a company that designs and develops system-on-a-chip, central computing, and graphics processing units. The business sells its goods in the gaming, data centre, automotive, and professional visualization markets. Additionally, it provides answers for design and visualization, edge computing, high-performance computing, self-driving cars, data centers, and artificial intelligence and data science.

For the semiconductor industry, Xilinx Inc. (Xilinx), a Advanced Micro Devices Inc. division, creates, develops, and sells programmable devices and technology. It offers targeted reference designs, printed circuit boards, software design tools, and intellectual property (IP) in addition to programmable logic devices (PLDs), programmable System on Chips (SoCs), printed circuit boards, and three-dimensional integrated circuits (3D ICs). The business offers technical assistance, client training, field engineering, and design services. It services various industries, including communications, aerospace and defence, medical, audio and video, broadcasting, industrial, scientific, automotive, consumer, and test and measurement.

Key Companies in the hardware acceleration market include

- NVIDIA Corporation (US)

- Intel Corporation (US)
- Advanced Micro Devices Inc. (US)
- Achronix Semiconductor (US)
- Oracle Corporation (US)
- Xilinx Inc. (US)
- IBM Corporation (US)
- Hewlett Packard Enterprise Company Dell (US)
- Lenovo Group Limited (China)
- Fujitsu Ltd (Japan)
- Cisco Systems Inc. (US)
- VMware Inc. (US)
- Enyx (France)
- HAX (US)
- Revvx (India)
- AlphaLab Gear (US)
- HWTrek (Taiwan)
- Wazer (China)
- Teradici (Canada)

Hardware Acceleration Industry Developments

October 2018: NVIDIA has created an open-source GPU acceleration platform for major businesses and organisations to analyze enormous amounts of data and make data-driven choices and business predictions at unprecedented speeds. This platform is specifically built for data science and machine learning. This GPU acceleration is thought to be able to accurately detect credit card fraud, analyze client purchase patterns, and more.

Hardware Acceleration Market Segmentation:

Hardware Acceleration Type Outlook (USD Billion, 2018-2032)

- Graphics Processing Unit

- Video Processing Unit
- AI Accelerator
- Regular Expression Accelerator
- Cryptographic Accelerator
- Others

Hardware Acceleration Application Outlook (USD Billion, 2018-2032)

- Deep Learning Training
- Public Cloud Inference
- Enterprise Inference
- Others

Hardware Acceleration End User Outlook (USD Billion, 2018-2032)

- IT and Telecommunication
- BFSI
- Retail
- Hospitality
- Logistics
- Automotive
- Healthcare
- Energy
- Others

Hardware Acceleration Regional Outlook (USD Billion, 2018-2032)

- North America
 - US

- Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

Table of Content:

Contents

Table of Contents

1 Executive Summary

2 Scope of the Report

2.1 Market Definition

2.2 Scope of the Study

2.3 Research Objectives

2.4 Markets Structure

3 Research Methodology

4 Market Landscape

4.1 Porter's Five Forces Analysis

4.1.1 Threat of New Entrants

4.1.2 Bargaining Power of Buyers

- 4.1.3 Threat of Substitutes
- 4.1.4 Intensity of Rivalry
- 4.1.5 Bargaining Power of Suppliers
- 4.2 Value Chain/Supply Chain of Global Hardware Acceleration Market
- 5 Market Landscape**
- 5.1 Introduction
- 5.2 Growth Drivers
- 5.3 Impact Analysis
- 5.4 Market Restraints
- 6 Market Trends**
- 6.1 Introduction
- 6.2 Growth Trends
- 6.3 Impact Analysis
- 7 Global Hardware Acceleration Market, by Type**
- 7.1 Introduction
- 7.2 Graphics Processing Unit
- 7.2.1 Market Estimates & Forecast, 2023–2032
- 7.3 Video Processing Unit
- 7.3.1 Market Estimates & Forecast, 2023–2032
- 7.4 AI Accelerator
- 7.4.1 Market Estimates & Forecast, 2023–2032
- 7.5 Regular Expression Accelerator
- 7.5.1 Market Estimates & Forecast, 2023–2032
- 7.6 Cryptographic Accelerator
- 7.6.1 Market Estimates & Forecast, 2023–2032
- 7.7 Others
- 7.7.1 Market Estimates & Forecast, 2023–2032
- 8 Global Hardware Acceleration Market, by Application**
- 8.1 Introduction
- 8.2 Deep Learning Training
- 8.2.1 Market Estimates & Forecast, 2023–2032
- 8.3 Public Cloud Inference
- 8.3.1 Market Estimates & Forecast, 2023–2032
- 8.4 Enterprise Inference
- 8.4.1 Market Estimates & Forecast, 2023–2032
- 8.5 Others
- 8.5.1 Market Estimates & Forecast, 2023–2032
- 9 Global Hardware Acceleration Market, by End User**
- 9.1 Introduction
- 9.2 Information Technology and Telecommunication
- 9.2.1 Market Estimates & Forecast, 2023–2032
- 9.3 BFSI
- 9.3.1 Market Estimates & Forecast, 2023–2032
- 9.4 Retail
- 9.4.1 Market Estimates & Forecast, 2023–2032
- 9.5 Hospitality
- 9.5.1 Market Estimates & Forecast, 2023–2032
- 9.6 Logistics
- 9.6.1 Market Estimates & Forecast, 2023–2032
- 9.7 Automotive
- 9.7.1 Market Estimates & Forecast, 2023–2032
- 9.8 Healthcare
- 9.8.1 Market Estimates & Forecast, 2023–2032
- 9.9 Energy
- 9.9.1 Market Estimates & Forecast, 2023–2032
- 9.10 Others
- 9.10.1 Market Estimates & Forecast, 2023–2032
- 10 Global Hardware Acceleration Market, by Region**
- 10.1 Introduction
- 10.2 North America
- 10.2.1 Market Estimates & Forecast, by Country, 2023–2032
- 10.2.2 Market Estimates & Forecast, by Type, 2023–2032
- 10.2.3 Market Estimates & Forecast, by Application, 2023–2032
- 10.2.4 Market Estimates & Forecast, by End User, 2023–2032
- 10.2.5 US
- 10.2.5.1 Market Estimates & Forecast, by Type, 2023–2032
- 10.2.5.2 Market Estimates & Forecast, by Application, 2023–2032
- 10.2.5.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.2.6 Mexico
- 10.2.6.1 Market Estimates & Forecast, by Type, 2023–2032
- 10.2.6.2 Market Estimates & Forecast, by Application, 2023–2032
- 10.2.6.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.2.7 Canada
- 10.2.7.1 Market Estimates & Forecast, by Type, 2023–2032
- 10.2.7.2 Market Estimates & Forecast, by Application, 2023–2032
- 10.2.7.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.3 Europe
- 10.3.1 Market Estimates & Forecast, by Country, 2023–2032
- 10.3.2 Market Estimates & Forecast, by Type, 2023–2032
- 10.3.3 Market Estimates & Forecast, by Application, 2023–2032
- 10.3.4 Market Estimates & Forecast, by End User, 2023–2032
- 10.3.5 Germany
- 10.3.5.1 Market Estimates & Forecast, by Type, 2023–2032
- 10.3.5.2 Market Estimates & Forecast, by Application, 2023–2032
- 10.3.5.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.3.6 France
- 10.3.6.1 Market Estimates & Forecast, by Type, 2023–2032
- 10.3.6.2 Market Estimates & Forecast, by Application, 2023–2032
- 10.3.6.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.3.7 Italy
- 10.3.7.1 Market Estimates & Forecast, by Type, 2023–2032
- 10.3.7.2 Market Estimates & Forecast, by Application, 2023–2032
- 10.3.7.3 Market Estimates & Forecast, by End User, 2023–2032

- 10.3.8 Spain
 - 10.3.8.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.3.8.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.3.8.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.3.9 UK
 - 10.3.9.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.3.9.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.3.9.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.3.10 Rest of Europe
 - 10.3.10.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.3.10.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.3.10.3 Market Estimates & Forecast, by End User, 2023–2032
- 10.4 Asia-Pacific
 - 10.4.1 Market Estimates & Forecast, by Country, 2023–2032
 - 10.4.2 Market Estimates & Forecast, by Type, 2023–2032
 - 10.4.3 Market Estimates & Forecast, by Application, 2023–2032
 - 10.4.4 Market Estimates & Forecast, by End User, 2023–2032
 - 10.4.5 China
 - 10.4.5.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.4.5.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.4.5.3 Market Estimates & Forecast, by End User, 2023–2032
 - 10.4.6 India
 - 10.4.6.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.4.6.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.4.6.3 Market Estimates & Forecast, by End User, 2023–2032
 - 10.4.7 Japan
 - 10.4.7.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.4.7.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.4.7.3 Market Estimates & Forecast, by End User, 2023–2032
 - 10.4.8 South Korea
 - 10.4.8.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.4.8.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.4.8.3 Market Estimates & Forecast, by End User, 2023–2032
 - 10.4.9 Rest of Asia-Pacific
 - 10.4.9.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.4.9.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.4.9.3 Market Estimates & Forecast, by End User, 2023–2032
 - 10.5 Rest of the World
 - 10.5.1 Market Estimates & Forecast, by Country, 2023–2032
 - 10.5.2 Market Estimates & Forecast, by Type, 2023–2032
 - 10.5.3 Market Estimates & Forecast, by Application, 2023–2032
 - 10.5.4 Market Estimates & Forecast, by End User, 2023–2032
 - 10.5.5 Middle East & Africa
 - 10.5.5.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.5.5.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.5.5.3 Market Estimates & Forecast, by End User, 2023–2032
 - 10.5.6 South America
 - 10.5.6.1 Market Estimates & Forecast, by Type, 2023–2032
 - 10.5.6.2 Market Estimates & Forecast, by Application, 2023–2032
 - 10.5.6.3 Market Estimates & Forecast, by End User, 2023–2032
 - 11 Competitive Landscape**
 - 12 Company Profiles**
 - 12.1 NVIDIA Corporation
 - 12.1.1 Company Overview
 - 12.1.2 End User/Business Segment Overview
 - 12.1.3 Financial Updates
 - 12.1.4 Key Developments
 - 12.1.5 SWOT Analysis
 - 12.1.6 Key Strategies
 - 12.2 Intel Corporation
 - 12.2.1 Company Overview
 - 12.2.2 End User/Business Segment Overview
 - 12.2.3 Financial Updates
 - 12.2.4 Key Developments
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Strategies
 - 12.3 Advanced Micro Devices, Inc.
 - 12.3.1 Company Overview
 - 12.3.2 End User/Business Segment Overview
 - 12.3.3 Financial Updates
 - 12.3.4 Key Developments
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Strategies
 - 12.4 Achronix Semiconductor
 - 12.4.1 Company Overview
 - 12.4.2 End User/Business Segment Overview
 - 12.4.3 Financial Updates
 - 12.4.4 Key Developments
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Strategies
 - 12.5 Oracle Corporation
 - 12.5.1 Company Overview
 - 12.5.2 End User/Business Segment Overview
 - 12.5.3 Financial Updates
 - 12.5.4 Key Developments
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Strategies
 - 12.6 Xilinx, Inc.
 - 12.6.1 Company Overview
 - 12.6.2 End User/Business Segment Overview
 - 12.6.3 Financial Updates
 - 12.6.4 Key Developments
 - 12.6.5 SWOT Analysis

12.6.6	Key Strategies
12.7	IBM Corporation
12.7.1	Company Overview
12.7.2	End User/Business Segment Overview
12.7.3	Financial Updates
12.7.4	Key Developments
12.7.5	SWOT Analysis
12.7.6	Key Strategies
12.8	Hewlett Packard Enterprise Company
12.8.1	Company Overview
12.8.2	End User/Business Segment Overview
12.8.3	Financial Updates
12.8.4	Key Developments
12.8.5	SWOT Analysis
12.8.6	Key Strategies
12.9	Dell
12.9.1	Company Overview
12.9.2	End User/Business Segment Overview
12.9.3	Financial Updates
12.9.4	Key Developments
12.9.5	SWOT Analysis
12.9.6	Key Strategies
12.10	Lenovo Group Limited
12.10.1	Company Overview
12.10.2	End User/Business Segment Overview
12.10.3	Financial Updates
12.10.4	Key Developments
12.10.5	SWOT Analysis
12.10.6	Key Strategies
12.11	Fujitsu Ltd
12.11.1	Company Overview
12.11.2	End User/Business Segment Overview
12.11.3	Financial Updates
12.11.4	Key Developments
12.11.5	SWOT Analysis
12.11.6	Key Strategies
12.12	Cisco Systems, Inc.
12.12.1	Company Overview
12.12.2	End User/Business Segment Overview
12.12.3	Financial Updates
12.12.4	Key Developments
12.12.5	SWOT Analysis
12.12.6	Key Strategies
12.13	VMware, Inc.
12.13.1	Company Overview
12.13.2	End User/Business Segment Overview
12.13.3	Financial Updates
12.13.4	Key Developments
12.13.5	SWOT Analysis
12.13.6	Key Strategies
12.14	Enyx
12.14.1	Company Overview
12.14.2	End User/Business Segment Overview
12.14.3	Financial Updates
12.14.4	Key Developments
12.14.5	SWOT Analysis
12.14.6	Key Strategies
12.15	HAX
12.15.1	Company Overview
12.15.2	End User/Business Segment Overview
12.15.3	Financial Updates
12.15.4	Key Developments
12.15.5	SWOT Analysis
12.15.6	Key Strategies

13 Conclusion

LIST OF TABLES

Table 1	Global Hardware Acceleration Market, by Type, 2023–2032
Table 2	Global Hardware Acceleration Market, by Application, 2023–2032
Table 3	Global Hardware Acceleration Market, by End User, 2023–2032
Table 4	Global Hardware Acceleration Market, by Region, 2023–2032
Table 5	North America: Hardware Acceleration Market, by Country, 2023–2032
Table 6	North America: Hardware Acceleration Market, by Type, 2023–2032
Table 7	North America: Hardware Acceleration Market, by Application, 2023–2032
Table 8	North America: Hardware Acceleration Market, by End User, 2023–2032
Table 9	US: Hardware Acceleration Market, by Type, 2023–2032
Table 10	US: Hardware Acceleration Market, by Application, 2023–2032
Table 11	US: Hardware Acceleration Market, by End User, 2023–2032
Table 12	Canada: Hardware Acceleration Market, by Type, 2023–2032
Table 13	Canada: Hardware Acceleration Market, by Application, 2023–2032
Table 14	Canada: Hardware Acceleration Market, by End User, 2023–2032
Table 15	Mexico: Hardware Acceleration Market, by Type, 2023–2032
Table 16	Mexico: Hardware Acceleration Market, by Application, 2023–2032
Table 17	Mexico: Hardware Acceleration Market, by End User, 2023–2032
Table 18	Europe: Hardware Acceleration Market, by Country, 2023–2032
Table 19	Europe: Hardware Acceleration Market, by Type, 2023–2032
Table 20	Europe: Hardware Acceleration Market, by Application, 2023–2032
Table 21	Europe: Hardware Acceleration Market, by End User, 2023–2032
Table 22	Germany: Hardware Acceleration Market, by Type, 2023–2032
Table 23	Germany: Hardware Acceleration Market, by Application, 2023–2032
Table 24	Germany: Hardware Acceleration Market, by End User, 2023–2032
Table 25	France: Hardware Acceleration Market, by Type, 2023–2032
Table 26	France: Hardware Acceleration Market, by Application, 2023–2032
Table 27	France: Hardware Acceleration Market, by End User, 2023–2032

Table 28 Italy: Hardware Acceleration Market, by Type, 2023–2032
Table 29 Italy: Hardware Acceleration Market, by Application, 2023–2032
Table 30 Italy: Hardware Acceleration Market, by End User, 2023–2032
Table 31 Spain: Hardware Acceleration Market, by Type, 2023–2032
Table 32 Spain: Hardware Acceleration Market, by Application, 2023–2032
Table 33 Spain: Hardware Acceleration Market, by End User, 2023–2032
Table 34 UK: Hardware Acceleration Market, by Type, 2023–2032
Table 35 UK: Hardware Acceleration Market, by Application, 2023–2032
Table 36 UK: Hardware Acceleration Market, by End User, 2023–2032
Table 37 Rest of Europe: Hardware Acceleration Market, by Type, 2023–2032
Table 38 Rest of Europe: Hardware Acceleration Market, by Application, 2023–2032
Table 39 Rest of Europe: Hardware Acceleration Market, by End User, 2023–2032
Table 40 Asia-Pacific: Hardware Acceleration Market, by Country, 2023–2032
Table 41 Asia-Pacific: Hardware Acceleration Market, by Type, 2023–2032
Table 42 Asia-Pacific: Hardware Acceleration Market, by Application, 2023–2032
Table 43 Asia-Pacific: Hardware Acceleration Market, by End User, 2023–2032
Table 44 China: Hardware Acceleration Market, by Type, 2023–2032
Table 45 China: Hardware Acceleration Market, by Application, 2023–2032
Table 46 China: Hardware Acceleration Market, by End User, 2023–2032
Table 47 Japan: Hardware Acceleration Market, by Type, 2023–2032
Table 48 Japan: Hardware Acceleration Market, by Application, 2023–2032
Table 49 Japan: Hardware Acceleration Market, by End User, 2023–2032
Table 50 India: Hardware Acceleration Market, by Type, 2023–2032
Table 51 India: Hardware Acceleration Market, by Application, 2023–2032
Table 52 India: Hardware Acceleration Market, by End User, 2023–2032
Table 53 South Korea: Hardware Acceleration Market, by Type, 2023–2032
Table 54 South Korea: Hardware Acceleration Market, by Application, 2023–2032
Table 55 South Korea: Hardware Acceleration Market, by End User, 2023–2032
Table 56 Rest of Asia-Pacific: Hardware Acceleration Market, by Type, 2023–2032
Table 57 Rest of Asia-Pacific: Hardware Acceleration Market, by Application, 2023–2032
Table 58 Rest of Asia-Pacific: Hardware Acceleration Market, by End User, 2023–2032
Table 59 Rest of the World: Hardware Acceleration Market, by Country, 2023–2032
Table 60 Rest of the World: Hardware Acceleration Market, by Type, 2023–2032
Table 61 Rest of the World: Hardware Acceleration Market, by Application, 2023–2032
Table 62 Rest of the World: Hardware Acceleration Market, by End User, 2023–2032
Table 63 Middle East and Africa: Hardware Acceleration Market, by Type, 2023–2032
Table 64 Middle East and Africa: Hardware Acceleration Market, by Application, 2023–2032
Table 65 Middle East and Africa: Hardware Acceleration Market, by End User, 2023–2032
Table 66 South America: Hardware Acceleration Market, by Type, 2023–2032
Table 67 South America: Hardware Acceleration Market, by Application, 2023–2032
Table 68 South America: Hardware Acceleration Market, by End User, 2023–2032
LIST OF FIGURES
FIGURE 1 Global Hardware Acceleration Market Segmentation
FIGURE 2 Forecast Methodology
FIGURE 3 Porter's Five Forces Analysis of the Global Hardware Acceleration Market
FIGURE 4 Value Chain of the Global Hardware Acceleration Market
FIGURE 5 Share of the Global Hardware Acceleration Market in 2020, by Country (in %)
FIGURE 6 Global Hardware Acceleration Market, 2023–2032
FIGURE 7 Global Hardware Acceleration Market Size, by Type, 2020
FIGURE 8 Share of the Global Hardware Acceleration Market, by Type, 2023 to 2032
FIGURE 9 Global Hardware Acceleration Market Size, by Application, 2020
FIGURE 10 Share of Global Hardware Acceleration Market, by Application, 2023 to 2032
FIGURE 13 Global Hardware Acceleration Market Size, by End User, 2020
FIGURE 14 Share of the Global Hardware Acceleration Market, by End User, 2023 to 2032