

Global PCIe-based Hardware Security Module (HSM) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global PCIe-based Hardware Security Module (HSM) market size was valued at US\$ 1009 million in 2024 and is forecast to a readjusted size of USD 1522 million by 2031 with a CAGR of 6.1% during review period.

A hardware security module (English: Hardware security module, abbreviated as HSM) is a computer hardware device used to protect and manage the digital keys used in strong authentication systems and provide related cryptographic operations at the same time. Hardware security modules are generally directly connected to computers or network servers in the form of expansion cards or external devices.

This report is a detailed and comprehensive analysis for global PCIe-based Hardware Security Module (HSM) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PCIe-based Hardware Security Module (HSM) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PCLE-based Hardware Security Module (HSM) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PCLE-based Hardware Security Module (HSM) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PCLE-based Hardware Security Module (HSM) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for PCLE-based Hardware Security Module (HSM)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global PCLE-based Hardware Security Module (HSM) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thales, Gemalto, Utimaco, Entrust Datacard, ATOS SE, Cavium, Ultra Electronics, Synopsys, excecet Secure Solutions GmbH, Futurex, etc.

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

Market Segmentation

PCLE-based Hardware Security Module (HSM) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Tampering Certificate

Tamper Resistance

Market segment by Application

Financial Services and Insurance

Government

General Business

Manufacturing

Others

Major players covered

Thales

Gemalto

Utimaco

Entrust Datacard

ATOS SE

Cavium

Ultra Electronics

Synopsys

exceet Secure Solutions GmbH

Futurex

Yubico

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PCIe-based Hardware Security Module (HSM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PCIe-based Hardware Security Module (HSM), with price, sales quantity, revenue, and global market share of PCIe-based Hardware Security Module (HSM) from 2020 to 2025.

Chapter 3, the PCIe-based Hardware Security Module (HSM) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PCIe-based Hardware Security Module (HSM) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and PCLE-based Hardware Security Module (HSM) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PCLE-based Hardware Security Module (HSM).

Chapter 14 and 15, to describe PCLE-based Hardware Security Module (HSM) sales channel, distributors, customers, research findings and conclusion.

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