

Global Homomorphic Encryption Accelerators Market Growth 2026-2032

<https://marketpublishers.com/r/G8B0F3D37C28EN.html>

Date: July 2026

Pages: 100

Price: US\$ 3,660.00 (Single User License)

ID: G8B0F3D37C28EN

Abstracts

The global Homomorphic Encryption Accelerators market size is predicted to grow from US\$ 6447 million in 2025 to US\$ 12327 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 2032.

In 2025, global Homomorphic Encryption Accelerator output reached about 2.2 billion units and global capacity of around 2.8 billion units. The average price is about USD 3 per unit, with gross margins near 43%. Homomorphic Encryption (HE) Accelerators are specialized hardware or hardware-software integrated computing solutions designed to efficiently execute homomorphic encryption algorithms, enabling computations to be performed directly on encrypted data without decrypting it. These accelerators significantly reduce the extremely high computational overhead associated with Fully Homomorphic Encryption (FHE), Partially Homomorphic Encryption (PHE), and Somewhat Homomorphic Encryption (SHE) schemes by optimizing operations such as polynomial arithmetic, lattice-based cryptography, modular multiplication, bootstrapping, and ciphertext transformation. HE accelerators are implemented through ASICs, FPGAs, GPUs, AI accelerators, cryptographic co-processors, and specialized data center hardware, and are increasingly used in privacy-preserving AI, secure cloud computing, confidential databases, financial analytics, healthcare data processing, government cybersecurity, and encrypted machine learning applications. The supply chain of Homomorphic Encryption Accelerators includes upstream suppliers of semiconductor wafers, advanced packaging materials, HBM memory, cryptographic IP cores, FPGA fabrics, GPU architectures, EDA software, and semiconductor manufacturing equipment; midstream participants consisting of chip designers, accelerator module manufacturers, AI hardware companies, cryptographic software developers, and cloud infrastructure providers integrating HE acceleration into servers and edge systems; and downstream end users including cloud service providers,

financial institutions, healthcare organizations, defense agencies, AI enterprises, telecom operators, research institutions, and privacy-focused computing platforms deploying secure encrypted computation environments.

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

Global key Homomorphic Encryption Accelerators players cover Intel, Zama, Cornami, Optalysys, NVIDIA, 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 "Homomorphic Encryption Accelerators Industry Forecast" looks at past sales and reviews total world Homomorphic Encryption Accelerators sales in 2025, providing a comprehensive analysis by region and market sector of projected Homomorphic Encryption Accelerators sales for 2026 through 2032. With Homomorphic Encryption Accelerators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Homomorphic Encryption Accelerators industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Homomorphic Encryption Accelerators 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 Homomorphic Encryption Accelerators.

This report presents a comprehensive overview, market shares, and growth opportunities of Homomorphic Encryption Accelerators market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

FHE Accelerators

PHE Accelerators

Segmentation by Security Level:

128-bit

192-bit

256-bit

Segmentation by Application:

Cloud Computing

AI/ML Systems

Cybersecurity

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.

Intel

Zama

Cornami

Optalysys

NVIDIA

AMD

IBM

Xilinx

Google

Samsung

Key Questions Addressed in this Report

What is the 10-year outlook for the global Homomorphic Encryption Accelerators market?

What factors are driving Homomorphic Encryption Accelerators market growth, globally and by region?

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

How do Homomorphic Encryption Accelerators market opportunities vary by end market size?

How does Homomorphic Encryption Accelerators break out by Type, by Application?

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