

Global Homomorphic Encryption Accelerators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Homomorphic Encryption Accelerators market size is expected to reach \$ 12565 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Homomorphic Encryption Accelerators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Homomorphic Encryption Accelerators and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Homomorphic Encryption Accelerators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Homomorphic Encryption Accelerators total production and demand, 2021-2032, (Million Units)

Global Homomorphic Encryption Accelerators total production value, 2021-2032, (USD Million)

Global Homomorphic Encryption Accelerators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Homomorphic Encryption Accelerators consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Homomorphic Encryption Accelerators domestic production, consumption, key domestic manufacturers and share

Global Homomorphic Encryption Accelerators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Homomorphic Encryption Accelerators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Homomorphic Encryption Accelerators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Homomorphic Encryption Accelerators market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel, Zama, Cornami, Optalysys, NVIDIA, AMD, IBM, Xilinx, Google, Samsung, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Homomorphic Encryption Accelerators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Homomorphic Encryption Accelerators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Homomorphic Encryption Accelerators Market, Segmentation by Type:

FHE Accelerators

PHE Accelerators

Global Homomorphic Encryption Accelerators Market, Segmentation by Security Level:

128-bit

192-bit

256-bit

Global Homomorphic Encryption Accelerators Market, Segmentation by Application:

Cloud Computing

AI/ML Systems

Cybersecurity

Others

Companies Profiled:

Intel

Zama

Cornami

Optalysys

NVIDIA

AMD

IBM

Xilinx

Google

Samsung

Key Questions Answered:

1. How big is the global Homomorphic Encryption Accelerators market?
2. What is the demand of the global Homomorphic Encryption Accelerators market?
3. What is the year over year growth of the global Homomorphic Encryption Accelerators market?
4. What is the production and production value of the global Homomorphic Encryption Accelerators market?
5. Who are the key producers in the global Homomorphic Encryption Accelerators market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Homomorphic Encryption Accelerators Introduction
- 1.2 World Homomorphic Encryption Accelerators Supply & Forecast
 - 1.2.1 World Homomorphic Encryption Accelerators Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Homomorphic Encryption Accelerators Production (2021-2032)
 - 1.2.3 World Homomorphic Encryption Accelerators Pricing Trends (2021-2032)
- 1.3 World Homomorphic Encryption Accelerators Production by Region (Based on Production Site)
 - 1.3.1 World Homomorphic Encryption Accelerators Production Value by Region (2021-2032)
 - 1.3.2 World Homomorphic Encryption Accelerators Production by Region (2021-2032)
 - 1.3.3 World Homomorphic Encryption Accelerators Average Price by Region (2021-2032)
 - 1.3.4 North America Homomorphic Encryption Accelerators Production (2021-2032)
 - 1.3.5 Europe Homomorphic Encryption Accelerators Production (2021-2032)
 - 1.3.6 China Homomorphic Encryption Accelerators Production (2021-2032)
 - 1.3.7 Japan Homomorphic Encryption Accelerators Production (2021-2032)
 - 1.3.8 South Korea Homomorphic Encryption Accelerators Production (2021-2032)
 - 1.3.9 Southeast Asia Homomorphic Encryption Accelerators Production (2021-2032)
 - 1.3.10 China Taiwan Homomorphic Encryption Accelerators Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Homomorphic Encryption Accelerators Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Homomorphic Encryption Accelerators Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Homomorphic Encryption Accelerators Demand (2021-2032)
- 2.2 World Homomorphic Encryption Accelerators Consumption by Region
 - 2.2.1 World Homomorphic Encryption Accelerators Consumption by Region (2021-2026)
 - 2.2.2 World Homomorphic Encryption Accelerators Consumption Forecast by Region (2027-2032)
- 2.3 United States Homomorphic Encryption Accelerators Consumption (2021-2032)
- 2.4 China Homomorphic Encryption Accelerators Consumption (2021-2032)

- 2.5 Europe Homomorphic Encryption Accelerators Consumption (2021-2032)
- 2.6 Japan Homomorphic Encryption Accelerators Consumption (2021-2032)
- 2.7 South Korea Homomorphic Encryption Accelerators Consumption (2021-2032)
- 2.8 ASEAN Homomorphic Encryption Accelerators Consumption (2021-2032)
- 2.9 India Homomorphic Encryption Accelerators Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Homomorphic Encryption Accelerators Production Value by Manufacturer (2021-2026)
- 3.2 World Homomorphic Encryption Accelerators Production by Manufacturer (2021-2026)
- 3.3 World Homomorphic Encryption Accelerators Average Price by Manufacturer (2021-2026)
- 3.4 Homomorphic Encryption Accelerators Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Homomorphic Encryption Accelerators Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Homomorphic Encryption Accelerators in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Homomorphic Encryption Accelerators in 2025
- 3.6 Homomorphic Encryption Accelerators Market: Overall Company Footprint Analysis
 - 3.6.1 Homomorphic Encryption Accelerators Market: Region Footprint
 - 3.6.2 Homomorphic Encryption Accelerators Market: Company Product Type Footprint
 - 3.6.3 Homomorphic Encryption Accelerators Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Homomorphic Encryption Accelerators Production Value Comparison
 - 4.1.1 United States VS China: Homomorphic Encryption Accelerators Production Value

Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Homomorphic Encryption Accelerators Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Homomorphic Encryption Accelerators Production Comparison

4.2.1 United States VS China: Homomorphic Encryption Accelerators Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Homomorphic Encryption Accelerators Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Homomorphic Encryption Accelerators Consumption Comparison

4.3.1 United States VS China: Homomorphic Encryption Accelerators Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Homomorphic Encryption Accelerators Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Homomorphic Encryption Accelerators Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Homomorphic Encryption Accelerators Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Homomorphic Encryption Accelerators Production Value (2021-2026)

4.4.3 United States Based Manufacturers Homomorphic Encryption Accelerators Production (2021-2026)

4.5 China Based Homomorphic Encryption Accelerators Manufacturers and Market Share

4.5.1 China Based Homomorphic Encryption Accelerators Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Homomorphic Encryption Accelerators Production Value (2021-2026)

4.5.3 China Based Manufacturers Homomorphic Encryption Accelerators Production (2021-2026)

4.6 Rest of World Based Homomorphic Encryption Accelerators Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Homomorphic Encryption Accelerators Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Homomorphic Encryption Accelerators Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Homomorphic Encryption Accelerators Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Homomorphic Encryption Accelerators Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 FHE Accelerators

5.2.2 PHE Accelerators

5.3 Market Segment by Type

5.3.1 World Homomorphic Encryption Accelerators Production by Type (2021-2032)

5.3.2 World Homomorphic Encryption Accelerators Production Value by Type (2021-2032)

5.3.3 World Homomorphic Encryption Accelerators Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SECURITY LEVEL

6.1 World Homomorphic Encryption Accelerators Market Size Overview by Security Level: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Security Level

6.2.1 128-bit

6.2.2 192-bit

6.2.3 256-bit

6.3 Market Segment by Security Level

6.3.1 World Homomorphic Encryption Accelerators Production by Security Level (2021-2032)

6.3.2 World Homomorphic Encryption Accelerators Production Value by Security Level (2021-2032)

6.3.3 World Homomorphic Encryption Accelerators Average Price by Security Level (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Homomorphic Encryption Accelerators Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Cloud Computing

7.2.2 AI/ML Systems

7.2.3 Cybersecurity

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Homomorphic Encryption Accelerators Production by Application
(2021-2032)

7.3.2 World Homomorphic Encryption Accelerators Production Value by Application
(2021-2032)

7.3.3 World Homomorphic Encryption Accelerators Average Price by Application
(2021-2032)

8 COMPANY PROFILES

8.1 Intel

8.1.1 Intel Details

8.1.2 Intel Major Business

8.1.3 Intel Homomorphic Encryption Accelerators Product and Services

8.1.4 Intel Homomorphic Encryption Accelerators Production, Price, Value, Gross
Margin and Market Share (2021-2026)

8.1.5 Intel Recent Developments/Updates

8.1.6 Intel Competitive Strengths & Weaknesses

8.2 Zama

8.2.1 Zama Details

8.2.2 Zama Major Business

8.2.3 Zama Homomorphic Encryption Accelerators Product and Services

8.2.4 Zama Homomorphic Encryption Accelerators Production, Price, Value, Gross
Margin and Market Share (2021-2026)

8.2.5 Zama Recent Developments/Updates

8.2.6 Zama Competitive Strengths & Weaknesses

8.3 Cornami

8.3.1 Cornami Details

8.3.2 Cornami Major Business

8.3.3 Cornami Homomorphic Encryption Accelerators Product and Services

8.3.4 Cornami Homomorphic Encryption Accelerators Production, Price, Value, Gross
Margin and Market Share (2021-2026)

8.3.5 Cornami Recent Developments/Updates

8.3.6 Cornami Competitive Strengths & Weaknesses

8.4 Optalysys

8.4.1 Optalysys Details

8.4.2 Optalysys Major Business

8.4.3 Optalysys Homomorphic Encryption Accelerators Product and Services

8.4.4 Optalysys Homomorphic Encryption Accelerators Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.4.5 Optalysys Recent Developments/Updates

8.4.6 Optalysys Competitive Strengths & Weaknesses

8.5 NVIDIA

8.5.1 NVIDIA Details

8.5.2 NVIDIA Major Business

8.5.3 NVIDIA Homomorphic Encryption Accelerators Product and Services

8.5.4 NVIDIA Homomorphic Encryption Accelerators Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.5.5 NVIDIA Recent Developments/Updates

8.5.6 NVIDIA Competitive Strengths & Weaknesses

8.6 AMD

8.6.1 AMD Details

8.6.2 AMD Major Business

8.6.3 AMD Homomorphic Encryption Accelerators Product and Services

8.6.4 AMD Homomorphic Encryption Accelerators Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.6.5 AMD Recent Developments/Updates

8.6.6 AMD Competitive Strengths & Weaknesses

8.7 IBM

8.7.1 IBM Details

8.7.2 IBM Major Business

8.7.3 IBM Homomorphic Encryption Accelerators Product and Services

8.7.4 IBM Homomorphic Encryption Accelerators Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.7.5 IBM Recent Developments/Updates

8.7.6 IBM Competitive Strengths & Weaknesses

8.8 Xilinx

8.8.1 Xilinx Details

8.8.2 Xilinx Major Business

8.8.3 Xilinx Homomorphic Encryption Accelerators Product and Services

8.8.4 Xilinx Homomorphic Encryption Accelerators Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.8.5 Xilinx Recent Developments/Updates

8.8.6 Xilinx Competitive Strengths & Weaknesses

8.9 Google

8.9.1 Google Details

8.9.2 Google Major Business

8.9.3 Google Homomorphic Encryption Accelerators Product and Services

8.9.4 Google Homomorphic Encryption Accelerators Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Google Recent Developments/Updates

8.9.6 Google Competitive Strengths & Weaknesses

8.10 Samsung

8.10.1 Samsung Details

8.10.2 Samsung Major Business

8.10.3 Samsung Homomorphic Encryption Accelerators Product and Services

8.10.4 Samsung Homomorphic Encryption Accelerators Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Samsung Recent Developments/Updates

8.10.6 Samsung Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Homomorphic Encryption Accelerators Industry Chain

9.2 Homomorphic Encryption Accelerators Upstream Analysis

9.2.1 Homomorphic Encryption Accelerators Core Raw Materials

9.2.2 Main Manufacturers of Homomorphic Encryption Accelerators Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Homomorphic Encryption Accelerators Production Mode

9.6 Homomorphic Encryption Accelerators Procurement Model

9.7 Homomorphic Encryption Accelerators Industry Sales Model and Sales Channels

9.7.1 Homomorphic Encryption Accelerators Sales Model

9.7.2 Homomorphic Encryption Accelerators Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Homomorphic Encryption Accelerators Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Homomorphic Encryption Accelerators Production Value by Region (2021-2026) & (USD Million)

Table 3. World Homomorphic Encryption Accelerators Production Value by Region (2027-2032) & (USD Million)

Table 4. World Homomorphic Encryption Accelerators Production Value Market Share by Region (2021-2026)

Table 5. World Homomorphic Encryption Accelerators Production Value Market Share by Region (2027-2032)

Table 6. World Homomorphic Encryption Accelerators Production by Region (2021-2026) & (Million Units)

Table 7. World Homomorphic Encryption Accelerators Production by Region (2027-2032) & (Million Units)

Table 8. World Homomorphic Encryption Accelerators Production Market Share by Region (2021-2026)

Table 9. World Homomorphic Encryption Accelerators Production Market Share by Region (2027-2032)

Table 10. World Homomorphic Encryption Accelerators Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Homomorphic Encryption Accelerators Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Homomorphic Encryption Accelerators Major Market Trends

Table 13. World Homomorphic Encryption Accelerators Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Homomorphic Encryption Accelerators Consumption by Region (2021-2026) & (Million Units)

Table 15. World Homomorphic Encryption Accelerators Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Homomorphic Encryption Accelerators Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Homomorphic Encryption Accelerators Producers in 2025

Table 18. World Homomorphic Encryption Accelerators Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Homomorphic Encryption Accelerators Producers in 2025

Table 20. World Homomorphic Encryption Accelerators Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Homomorphic Encryption Accelerators Company Evaluation Quadrant

Table 22. World Homomorphic Encryption Accelerators Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Homomorphic Encryption Accelerators Production Site of Key Manufacturer

Table 24. Homomorphic Encryption Accelerators Market: Company Product Type Footprint

Table 25. Homomorphic Encryption Accelerators Market: Company Product Application Footprint

Table 26. Homomorphic Encryption Accelerators Competitive Factors

Table 27. Homomorphic Encryption Accelerators New Entrant and Capacity Expansion Plans

Table 28. Homomorphic Encryption Accelerators Mergers & Acquisitions Activity

Table 29. United States VS China Homomorphic Encryption Accelerators Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Homomorphic Encryption Accelerators Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Homomorphic Encryption Accelerators Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Homomorphic Encryption Accelerators Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Homomorphic Encryption Accelerators Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Homomorphic Encryption Accelerators Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Homomorphic Encryption Accelerators Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Homomorphic Encryption Accelerators Production Market Share (2021-2026)

Table 37. China Based Homomorphic Encryption Accelerators Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Homomorphic Encryption Accelerators Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Homomorphic Encryption Accelerators Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Homomorphic Encryption Accelerators Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Homomorphic Encryption Accelerators Production Market Share (2021-2026)

Table 42. Rest of World Based Homomorphic Encryption Accelerators Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Homomorphic Encryption Accelerators Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Homomorphic Encryption Accelerators Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Homomorphic Encryption Accelerators Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Homomorphic Encryption Accelerators Production Market Share (2021-2026)

Table 47. World Homomorphic Encryption Accelerators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Homomorphic Encryption Accelerators Production by Type (2021-2026) & (Million Units)

Table 49. World Homomorphic Encryption Accelerators Production by Type (2027-2032) & (Million Units)

Table 50. World Homomorphic Encryption Accelerators Production Value by Type (2021-2026) & (USD Million)

Table 51. World Homomorphic Encryption Accelerators Production Value by Type (2027-2032) & (USD Million)

Table 52. World Homomorphic Encryption Accelerators Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Homomorphic Encryption Accelerators Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Homomorphic Encryption Accelerators Production Value by Security Level, (USD Million), 2021 & 2025 & 2032

Table 55. World Homomorphic Encryption Accelerators Production by Security Level (2021-2026) & (Million Units)

Table 56. World Homomorphic Encryption Accelerators Production by Security Level (2027-2032) & (Million Units)

Table 57. World Homomorphic Encryption Accelerators Production Value by Security Level (2021-2026) & (USD Million)

Table 58. World Homomorphic Encryption Accelerators Production Value by Security Level (2027-2032) & (USD Million)

Table 59. World Homomorphic Encryption Accelerators Average Price by Security Level

(2021-2026) & (US\$/Unit)

Table 60. World Homomorphic Encryption Accelerators Average Price by Security Level (2027-2032) & (US\$/Unit)

Table 61. World Homomorphic Encryption Accelerators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Homomorphic Encryption Accelerators Production by Application (2021-2026) & (Million Units)

Table 63. World Homomorphic Encryption Accelerators Production by Application (2027-2032) & (Million Units)

Table 64. World Homomorphic Encryption Accelerators Production Value by Application (2021-2026) & (USD Million)

Table 65. World Homomorphic Encryption Accelerators Production Value by Application (2027-2032) & (USD Million)

Table 66. World Homomorphic Encryption Accelerators Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Homomorphic Encryption Accelerators Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Intel Basic Information, Manufacturing Base and Competitors

Table 69. Intel Major Business

Table 70. Intel Homomorphic Encryption Accelerators Product and Services

Table 71. Intel Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Intel Recent Developments/Updates

Table 73. Intel Competitive Strengths & Weaknesses

Table 74. Zama Basic Information, Manufacturing Base and Competitors

Table 75. Zama Major Business

Table 76. Zama Homomorphic Encryption Accelerators Product and Services

Table 77. Zama Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Zama Recent Developments/Updates

Table 79. Zama Competitive Strengths & Weaknesses

Table 80. Cornami Basic Information, Manufacturing Base and Competitors

Table 81. Cornami Major Business

Table 82. Cornami Homomorphic Encryption Accelerators Product and Services

Table 83. Cornami Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Cornami Recent Developments/Updates
Table 85. Cornami Competitive Strengths & Weaknesses
Table 86. Optalysys Basic Information, Manufacturing Base and Competitors
Table 87. Optalysys Major Business
Table 88. Optalysys Homomorphic Encryption Accelerators Product and Services
Table 89. Optalysys Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. Optalysys Recent Developments/Updates
Table 91. Optalysys Competitive Strengths & Weaknesses
Table 92. NVIDIA Basic Information, Manufacturing Base and Competitors
Table 93. NVIDIA Major Business
Table 94. NVIDIA Homomorphic Encryption Accelerators Product and Services
Table 95. NVIDIA Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. NVIDIA Recent Developments/Updates
Table 97. NVIDIA Competitive Strengths & Weaknesses
Table 98. AMD Basic Information, Manufacturing Base and Competitors
Table 99. AMD Major Business
Table 100. AMD Homomorphic Encryption Accelerators Product and Services
Table 101. AMD Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. AMD Recent Developments/Updates
Table 103. AMD Competitive Strengths & Weaknesses
Table 104. IBM Basic Information, Manufacturing Base and Competitors
Table 105. IBM Major Business
Table 106. IBM Homomorphic Encryption Accelerators Product and Services
Table 107. IBM Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. IBM Recent Developments/Updates
Table 109. IBM Competitive Strengths & Weaknesses
Table 110. Xilinx Basic Information, Manufacturing Base and Competitors
Table 111. Xilinx Major Business
Table 112. Xilinx Homomorphic Encryption Accelerators Product and Services
Table 113. Xilinx Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 114. Xilinx Recent Developments/Updates

Table 115. Xilinx Competitive Strengths & Weaknesses

Table 116. Google Basic Information, Manufacturing Base and Competitors

Table 117. Google Major Business

Table 118. Google Homomorphic Encryption Accelerators Product and Services

Table 119. Google Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Google Recent Developments/Updates

Table 121. Google Competitive Strengths & Weaknesses

Table 122. Samsung Basic Information, Manufacturing Base and Competitors

Table 123. Samsung Major Business

Table 124. Samsung Homomorphic Encryption Accelerators Product and Services

Table 125. Samsung Homomorphic Encryption Accelerators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Samsung Recent Developments/Updates

Table 127. Samsung Competitive Strengths & Weaknesses

Table 128. Global Key Players of Homomorphic Encryption Accelerators Upstream (Raw Materials)

Table 129. Global Homomorphic Encryption Accelerators Typical Customers

Table 130. Homomorphic Encryption Accelerators Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Homomorphic Encryption Accelerators Picture

Figure 2. World Homomorphic Encryption Accelerators Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Homomorphic Encryption Accelerators Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 5. World Homomorphic Encryption Accelerators Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Homomorphic Encryption Accelerators Production Value Market Share by Region (2021-2032)

Figure 7. World Homomorphic Encryption Accelerators Production Market Share by Region (2021-2032)

Figure 8. North America Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 9. Europe Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 10. China Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 11. Japan Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 12. South Korea Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 13. Southeast Asia Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 14. China Taiwan Homomorphic Encryption Accelerators Production (2021-2032) & (Million Units)

Figure 15. Homomorphic Encryption Accelerators Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 18. World Homomorphic Encryption Accelerators Consumption Market Share by Region (2021-2032)

Figure 19. United States Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 20. China Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 21. Europe Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 22. Japan Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 23. South Korea Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 24. ASEAN Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 25. India Homomorphic Encryption Accelerators Consumption (2021-2032) & (Million Units)

Figure 26. Producer Shipments of Homomorphic Encryption Accelerators by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Homomorphic Encryption Accelerators Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Homomorphic Encryption Accelerators Markets in 2025

Figure 29. United States VS China: Homomorphic Encryption Accelerators Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Homomorphic Encryption Accelerators Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Homomorphic Encryption Accelerators Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Homomorphic Encryption Accelerators Production Market Share 2025

Figure 33. China Based Manufacturers Homomorphic Encryption Accelerators Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Homomorphic Encryption Accelerators Production Market Share 2025

Figure 35. World Homomorphic Encryption Accelerators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Homomorphic Encryption Accelerators Production Value Market Share by Type in 2025

Figure 37. FHE Accelerators

Figure 38. PHE Accelerators

Figure 39. World Homomorphic Encryption Accelerators Production Market Share by Type (2021-2032)

Figure 40. World Homomorphic Encryption Accelerators Production Value Market Share

by Type (2021-2032)

Figure 41. World Homomorphic Encryption Accelerators Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Homomorphic Encryption Accelerators Production Value by Security Level, (USD Million), 2021 & 2025 & 2032

Figure 43. World Homomorphic Encryption Accelerators Production Value Market Share by Security Level in 2025

Figure 44. 128-bit

Figure 45. 192-bit

Figure 46. 256-bit

Figure 47. World Homomorphic Encryption Accelerators Production Market Share by Security Level (2021-2032)

Figure 48. World Homomorphic Encryption Accelerators Production Value Market Share by Security Level (2021-2032)

Figure 49. World Homomorphic Encryption Accelerators Average Price by Security Level (2021-2032) & (US\$/Unit)

Figure 50. World Homomorphic Encryption Accelerators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Homomorphic Encryption Accelerators Production Value Market Share by Application in 2025

Figure 52. Cloud Computing

Figure 53. AI/ML Systems

Figure 54. Cybersecurity

Figure 55. Others

Figure 56. World Homomorphic Encryption Accelerators Production Market Share by Application (2021-2032)

Figure 57. World Homomorphic Encryption Accelerators Production Value Market Share by Application (2021-2032)

Figure 58. World Homomorphic Encryption Accelerators Average Price by Application (2021-2032) & (US\$/Unit)

Figure 59. Homomorphic Encryption Accelerators Industry Chain

Figure 60. Homomorphic Encryption Accelerators Procurement Model

Figure 61. Homomorphic Encryption Accelerators Sales Model

Figure 62. Homomorphic Encryption Accelerators Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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