

# Global Homomorphic Encryption Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

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# **Abstracts**

## Summary

Homomorphic Encryption (HE, homomorphic encryption) is a special encryption mode in cryptography. Homomorphic Encryption allows users to send the encrypted cipher text to any third party for calculation, and does not need to be decrypted before calculation. Calculate on the cipher text. Although the concept of homomorphic encryption first appeared 30 years ago, the first fully homomorphic encryption framework that supports arbitrary operations on cipher text appeared late, and was proposed by Craig Gentry in 2009.

Homomorphic Encryption is a form of encryption that allows an encrypted file to be calculated to generate an encrypted result that matches the result of the operation performed on the plaintext after decryption. The purpose of Homomorphic Encryption is to allow calculations on encrypted data.

According to APO Research, The global Homomorphic Encryption market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Homomorphic Encryption is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Homomorphic Encryption is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025



through 2030.

The China market for Homomorphic Encryption is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Homomorphic Encryption is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global companies of Homomorphic Encryption include Microsoft, IBM Corporation, Galois, CryptoExperts, Enveil, Duality Technologies, ShieldIO and Huawei, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

# Report Includes

This report presents an overview of global market for Homomorphic Encryption, market size. Analyses of the global market trends, with historic market revenue data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Homomorphic Encryption, also provides the revenue of main regions and countries. Of the upcoming market potential for Homomorphic Encryption, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Homomorphic Encryption revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Homomorphic Encryption market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, revenue, and growth rate, from 2019 to 2030. Evaluation and forecast the market size for Homomorphic Encryption revenue, projected growth trends, production technology,



application and end-user industry. Homomorphic Encryption segment by Company Microsoft **IBM** Corporation Galois CryptoExperts Enveil **Duality Technologies** ShieldIO Huawei Homomorphic Encryption segment by Type Partially Homomorphism Fully Homomorphism Homomorphic Encryption segment by Application Government Finance and Insurance Health Care Industry

Others



# Homomorphic Encryption segment by Region

North America		
	U.S.	
	Canada	
Europe		
	Germany	
	France	
	U.K.	
	Italy	
	Russia	
Asia-Pacific		
	China	
	Japan	
	South Korea	
	India	
	Australia	
	China Taiwan	
	Indonesia	
	Thailand	



ľ	Malaysia	
Latin America		
1	Mexico	
E	Brazil	
A	Argentina	
Middle East & Africa		
٦	Turkey	
Ş	Saudi Arabia	
l	UAE	
Study Objective	es	
1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.		

2. To present the key manufacturers, capacity, production, revenue, market share, and

- 3. To split the breakdown data by regions, type, manufacturers, and Application.
- 4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
- 5. To identify significant trends, drivers, influence factors in global and regions.
- 6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

# Reasons to Buy This Report

Recent Developments.



- 1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Homomorphic Encryption market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
- 2. This report will help stakeholders to understand the global industry status and trends of Homomorphic Encryption and provides them with information on key market drivers, restraints, challenges, and opportunities.
- 3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
- 4. This report stays updated with novel technology integration, features, and the latest developments in the market.
- 5. This report helps stakeholders to gain insights into which regions to target globally.
- 6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Homomorphic Encryption.
- 7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

# Chapter Outline

Chapter 1: Introduces the report scope of the report, executive summary of different market segments (product type, application, etc), including the market size of each market segment, future development potential, and so on. Revenue of Homomorphic Encryption in global and regional level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.



Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Homomorphic Encryption industry.

Chapter 3: Detailed analysis of Homomorphic Encryption companies' competitive landscape, revenue, market share and industry ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the revenue, and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the revenue, and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key companies, introducing the basic situation of the main companies in the market in detail, including product descriptions and specifications, Homomorphic Encryptionrevenue, gross margin, and recent development, etc.

Chapter 7: North America (US & Canada) by type, by application and by country, revenue for each segment.

Chapter 8: Europe by type, by application and by country, revenue for each segment.

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