

Global Homomorphic Encryption Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Homomorphic Encryption market size was valued at USD 154.7 million in 2023 and is forecast to a readjusted size of USD 512.3 million by 2030 with a CAGR of 18.7% during review period.

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.

The Homomorphic Encryption is mainly classified into the following types: Partially Homomorphism and Fully Homomorphism. And Fully Homomorphism is the most widely used type which took up about 92% of the global in 2019.

Homomorphic Encryption is mainly used in Government, Financial & Insurance, Health Care, Industrial and Others. And Financial & Insurance is the most widely used area which took up about 30% of the global in 2019.

North America is the largest countries of Homomorphic Encryption in the world in the past few years and it will keep increasing in the next few years. North America market took up about 68% the global market in 2019, while Europe and Asia-Pacific were about 15%, 12%.

Market barriers of Homomorphic Encryption are high, the main players are Microsoft, IBM, Galois and CryptoExperts, Enveil, Duality Technologies, ShieldIO, HUAWEI among those, IBM mastered the most advanced technology, Microsoft made great progress in the healthcare and biotechnology area; Galois got strong support from DARPA; CryptoExperts, Enveil, Duality Technologies, ShieldIO, HUAWEI are young start-up companies with a huge future, and now, they are cooperating to standardize homomorphic encryption.

The Global Info Research report includes an overview of the development of the Homomorphic Encryption industry chain, the market status of Government (Partially Homomorphism, Fully Homomorphism), Finance and Insurance (Partially Homomorphism, Fully Homomorphism), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Homomorphic Encryption.

Regionally, the report analyzes the Homomorphic Encryption markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Homomorphic Encryption market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Homomorphic Encryption market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Homomorphic Encryption industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Partially Homomorphism, Fully Homomorphism).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Homomorphic Encryption market.

Regional Analysis: The report involves examining the Homomorphic Encryption market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Homomorphic Encryption market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Homomorphic Encryption:

Company Analysis: Report covers individual Homomorphic Encryption players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Homomorphic Encryption This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Government, Finance and Insurance).

Technology Analysis: Report covers specific technologies relevant to Homomorphic Encryption. It assesses the current state, advancements, and potential future developments in Homomorphic Encryption areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Homomorphic Encryption market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Homomorphic Encryption market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Partially Homomorphism

Fully Homomorphism

Market segment by Application

Government

Finance and Insurance

Health Care

Industry

Others

Market segment by players, this report covers

Microsoft

IBM Corporation

Galois

CryptoExperts

Enveil

Duality Technologies

ShieldIO

Huawei

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Homomorphic Encryption product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Homomorphic Encryption, with revenue, gross margin and global market share of Homomorphic Encryption from 2019 to 2024.

Chapter 3, the Homomorphic Encryption competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Homomorphic Encryption market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Homomorphic Encryption.

Chapter 13, to describe Homomorphic Encryption research findings and conclusion.

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