

Global Homomorphic Encryption Market Size, Manufacturers, Growth Analysis Industry Forecast to 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.

North American 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.

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

This report researches the key producers of Homomorphic Encryption, also provides the value 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 companies, 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.

All companies have demonstrated varying levels of sales growth and profitability over the past six years, while some companies have experienced consistent growth, others have shown fluctuations in performance. The overall trend suggests a positive outlook for the global Homomorphic Encryption company landscape, with companies adapting to market dynamics and maintaining profitability amidst changing conditions.

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

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global Homomorphic Encryption status and future forecast, involving, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the Homomorphic Encryption key companies, revenue, market share, and recent developments.
3. To split the Homomorphic Encryption breakdown data by regions, type, companies, and application.
4. To analyze the global and key regions Homomorphic Encryption market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Homomorphic Encryption significant trends, drivers, influence factors in global and regions.
6. To analyze Homomorphic Encryption competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

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 sales 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, global total market size.

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

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

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

Chapter 6: Sales value of Homomorphic Encryption in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of key country in the world.

Chapter 7: Sales value of Homomorphic Encryption in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including revenue, gross margin, product introduction, recent development, etc.

Chapter 9: Concluding Insights.

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