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# Global Hardware-based Full Disk Encryption Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

This report studies the Hardware-based Full Disk Encryption market, Hardware-based Full Disk Encryption (FDE) is available from many hard disk drive (HDD) vendors, including: Seagate Technology, Western Digital, Samsung, Toshiba and also solid-state drive vendors such as SanDisk, Samsung, Micron and Integral Memory. The symmetric encryption key is maintained independently from the CPU, thus removing computer memory as a potential attack vector.

Full-disk encryption is encryption at the hardware level. FDE works by automatically converting data on a hard drive into a form that cannot be understood by anyone who doesn’t have the key to “undo” the conversion.

According to our (Global Info Research) latest study, the global Hardware-based Full Disk Encryption market size was valued at US$ 45440 million in 2023 and is forecast to a readjusted size of USD 195460 million by 2030 with a CAGR of 23.4% during review period.

Southeast Asia is the largest region of Hardware-based Full Disk Encryption, with a market share about 35%, followed by China, Europe and North America, etc. Seagate Technology PLC, Western Digital Corp, Samsung Electronics, Toshiba and Kingston are the top 5 manufacturers of industry, and they had about 75% combined market share.

This report is a detailed and comprehensive analysis for global Hardware-based Full Disk Encryption market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

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constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Hardware-based Full Disk Encryption market size and forecasts, in consumption value ($ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2019-2030

Global Hardware-based Full Disk Encryption market size and forecasts by region and country, in consumption value ($ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2019-2030

Global Hardware-based Full Disk Encryption market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (M Units), and average selling prices (USD/Unit), 2019-2030

Global Hardware-based Full Disk Encryption market shares of main players, shipments in revenue ($ Million), sales quantity (M Units), and ASP (USD/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hardware-based Full Disk Encryption

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hardware-based Full Disk Encryption market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Seagate Technology PLC, Western Digital Corp, Samsung Electronics, Toshiba, Kingston, Micron Technology Inc, Intel, etc.

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This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Hardware-based Full Disk 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 volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Hard Disk Drive (HDD) FDE

Solid State Drives (SSD) FDE

Market segment by Application

IT & Telecom

BFSI

Government & Public Utilities

Manufacturing Enterprise

Others

Major players covered

Seagate Technology PLC

Western Digital Corp

Samsung Electronics

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Toshiba

Kingston

Micron Technology Inc

Intel

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hardware-based Full Disk Encryption product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hardware-based Full Disk Encryption, with price, sales quantity, revenue, and global market share of Hardware-based Full Disk Encryption from 2019 to 2024.

Chapter 3, the Hardware-based Full Disk Encryption competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hardware-based Full Disk Encryption breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024.and Hardware-based Full Disk Encryption market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hardware-based Full Disk Encryption.

Chapter 14 and 15, to describe Hardware-based Full Disk Encryption sales channel, distributors, customers, research findings and conclusion.

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