

U.S. Hardware Encryption Market by Algorithm & Standard (Rivest, Shamir, and Adelman (RSA), Advanced Encryption Standard (AES), and Others), Architecture (Application-Specific Integrated Circuit (ASIC) and Field-Programmable Gate Array (FPGA)), Product (Hard Disk Drive (HDD), Solid State Drives (SSD), Universal Serial Bus (USB), and Inline Network Encryptor), Application (Consumer electronics, IT & Telecom , Automotive & Transportation, Aerospace & Defense, Healthcare, and Others), and End Use (Industrial, Commercial, Residential, and Government): Opportunity Analysis and Industry Forecast, 2019-2026

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Abstracts

Hardware encryption is a hardware-based technique which is used for securing digital data. There are two forms of encryption; hardware-based encryption and software-based encryption. Hardware encryption uses a processor that contains random number of generators to generate encryption key. The key advantage of hardware-based solutions is that they eliminate the typical drawbacks of software-based solutions such as performance degradation for attacks aimed at the encryption key stored in memory. In hardware encryption, the security parameters and safeguard keys enhance the performance of encryption. These security parameters protect the encryption from cold boots and brute force attacks. Hardware encryption is a cost-effective method that holds diverse applications in securing data efficiently.

Increase in regulatory compliances regarding protection of private & sensitive data and reduction in prices of hardware encryption devices majorly drive the growth of the market. Moreover, factors such as increase in concerns related to data security and privacy, growth of the consumer electronics such as smartphones and tablets and increase in complexity & volume of data breaches and brute force attacks drive the growth of the market. However, high capital investment and limited use of encrypted devices in the U.S. hinder the market growth. On the contrary, widespread adoption of Internet of Things (IoT) technology and cloud services as well as technological advancement on encryption chip are anticipated to offer lucrative opportunities for the market.

The U.S. hardware encryption market is segmented into algorithm & standard, architecture, product, application, and end use. Depending on algorithm and standard, the market is bifurcated into Rivest, Shamir, and Adelman (RSA), Advanced Encryption Standard (AES), and others. On the basis of architecture, it is classified into Application-Specific Integrated Circuit (ASIC) and Field-Programmable Gate Array (FPGA). The product segment includes Hard Disk Drive (HDD), Solid State Drives (SSD), Universal Serial Bus (USB), and inline network encryptor. By application, the market is categorized into consumer electronics, IT & telecom, automotive & transportation, aerospace and defense, healthcare and others. The end use segment is segregated into industrial, commercial, residential, and government.

The report analyzes the profiles of key players operating in the market, which include International Business Machines (IBM) Corporation, Kingston Technology Company, Inc., McAfee, LLC, Micron Technology, Inc., NetApp, Samsung Electronics Co., Ltd., Seagate Technology LLC, Symantec Corporation, Toshiba Corporation, and Western Digital Technologies, Inc.

KEY BENEFITS FOR STAKEHOLDERS

The study provides an in-depth analysis of the U.S. hardware encryption market trends to elucidate the imminent investment pockets.

Information about key drivers, restraints, and opportunities and their impact analyses on the U.S. hardware encryption market size is provided.

Porter's five forces analysis illustrates the potency of the buyers and suppliers operating in the U.S. hardware encryption industry.

The quantitative analysis of the market from 2014 to 2026 is provided to determine the U.S. hardware encryption market potential.

KEY MARKET SEGMENTS

By Algorithm & Standard

Rivest, Shamir, and Adelman (RSA)

Advanced Encryption Standard (AES)

Others

By Architecture

Application-Specific Integrated Circuit (ASIC)

Field-Programmable Gate Array (FPGA)

By Product

Hard Disk Drive (HDD)

External HDD

Internal HDD

Solid State Drives (SSD)

Universal Serial Bus (USB)

Up to 4GB

5GB to 16GB

17GB to 64GB

65GB and above

Inline Network Encryptor

By Application

Consumer electronics

IT & Telecom

Automotive & Transportation

Aerospace and Defense

Healthcare

Others

By End Use

Industrial

Commercial

Residential

Government

BY REGION

North America

U.S.

Canada

Europe

Germany

France

UK

Rest of Europe

Asia-Pacific

Japan

China

India

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY MARKET PLAYERS

International Business Machines (IBM) Corporation

Kingston Technology Company, Inc.

McAfee, LLC

Micron Technology, Inc.

NetApp, Inc.

Samsung Electronics Co., Ltd.

Seagate Technology LLC

Symantec Corporation

Toshiba Corporation

Western Digital Technologies, Inc.

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Benefits For Stakeholders
- 1.3. Research Methodology
 - 1.3.1. Secondary Research
 - 1.3.2. Primary Research
 - 1.3.3. Analyst Tools & Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. Key Findings
 - 2.1.1. Top Impacting Factors
 - 2.1.2. Top Investment Pockets
- 2.2. Cxo Perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market Definition And Scope
- 3.2. Porter'S Five Forces Analysis
- 3.3. Market Dynamics
 - 3.3.1. Drivers
 - 3.3.1.1. Increase In Regulatory Compliances Regarding Protection of Private & Sensitive Data
 - 3.3.1.2. Decline In Prices of Hardware Encryption Devices
 - 3.3.1.3. Growth of The Consumer Electronics Such As Smartphones And Tablets
 - 3.3.1.4. Increase In Complexity & Volume of Data Breaches And Brute Force Attacks
 - 3.3.2. Restraints
 - 3.3.2.1. High Capital Investment
 - 3.3.2.2. Limiting The Use of Encrypted Devices In The U.S.
 - 3.3.3. Opportunities
 - 3.3.3.1. Widespread Adoption of Internet of Things (Iot) Technology And Cloud Services
 - 3.3.3.2. Ongoing Technological Advancement In Encryption Chip
- 3.4. Case Studies
 - 3.4.1. Case Study
 - 3.4.2. Case Study

3.5. Impact of Government Regulations On The U.S. Hardware Encryption Market

CHAPTER 4: U.S. HARDWARE ENCRYPTION MARKET, BY ALGORITHM AND STANDARD

4.1. Overview

4.2. Rsa

4.2.1. Key Market Trends, Growth Factors, And Opportunities

4.2.2. Market Size And Forecast

4.3. Aes

4.3.1. Key Market Trends, Growth Factors, And Opportunities

4.3.2. Market Size And Forecast

4.4. Other

4.4.1. Key Market Trends, Growth Factors, And Opportunities

4.4.2. Market Size And Forecast

CHAPTER 5: U.S. HARDWARE ENCRYPTION MARKET, BY ARCHITECTURE

5.1. Overview

5.2. Asic

5.2.1. Key Market Trends, Growth Factors, And Opportunities

5.2.2. Market Size And Forecast

5.3. Fpga

5.3.1. Key Market Trends, Growth Factors, And Opportunities

5.3.2. Market Size And Forecast

CHAPTER 6: U.S. HARDWARE ENCRYPTION MARKET, BY PRODUCT

6.1. Overview

6.2. Hard Disk Drive (Hdd)

6.2.1. Key Market Trends, Growth Factors, And Opportunities

6.2.2. Market Size And Forecast

6.2.2.1. External Hard Disk Drive

6.2.2.2. Internal Hard Disk Drive

6.3. Solid State Drive (Ssd)

6.3.1. Key Market Trends, Growth Factors, And Opportunities

6.3.2. Market Size And Forecast

6.4. Usb Flash Drive

6.4.1. Key Market Trends, Growth Factors, And Opportunities

- 6.4.2. Market Size And Forecast
 - 6.4.2.1. Up To 4Gb
 - 6.4.2.2. 5Gb To 16Gb
 - 6.4.2.3. 17Gb To 64Gb
 - 6.4.2.4. 65Gb And Above
- 6.5. Inline Network Encryptors (Ine)
 - 6.5.1. Key Market Trends, Growth Factors, And Opportunities
 - 6.5.2. Market Size And Forecast

CHAPTER 7: U.S. HARDWARE ENCRYPTION MARKET, BY APPLICATION

- 7.1. Overview
- 7.2. Consumer Electronics
 - 7.2.1. Key Market Trends, Growth Factors, And Opportunities
 - 7.2.2. Market Size And Forecast
- 7.3. It And Telecom
 - 7.3.1. Key Market Trends, Growth Factors, And Opportunities
 - 7.3.2. Market Size And Forecast
- 7.4. Automotive And Transportation
 - 7.4.1. Key Market Trends, Growth Factors, And Opportunities
 - 7.4.2. Market Size And Forecast
- 7.5. Aerospace & Defense
 - 7.5.1. Key Market Trends, Growth Factors, And Opportunities
 - 7.5.2. Market Size And Forecast
- 7.6. Healthcare
 - 7.6.1. Key Market Trends, Growth Factors, And Opportunities
 - 7.6.2. Market Size And Forecast
- 7.7. Others
 - 7.7.1. Key Market Trends, Growth Factors, And Opportunities
 - 7.7.2. Market Size And Forecast

CHAPTER 8: U.S. HARDWARE ENCRYPTION MARKET, BY END USE

- 8.1. Overview
- 8.2. Industrial
 - 8.2.1. Key Market Trends, Growth Factors, And Opportunities
 - 8.2.2. Market Size And Forecast
- 8.3. Commercial
 - 8.3.1. Key Market Trends, Growth Factors, And Opportunities

- 8.3.2. Market Size And Forecast
- 8.4. Residential
 - 8.4.1. Key Market Trends, Growth Factors, And Opportunities
 - 8.4.2. Market Size And Forecast
- 8.5. Government
 - 8.5.1. Key Market Trends, Growth Factors, And Opportunities
 - 8.5.2. Market Size And Forecast

CHAPTER 9: COMPETITIVE LANDSCAPE

- 9.1. Market Share Analysis
- 9.2. Competitive Dashboard
- 9.3. Top Winning Strategies
- 9.4. Key Developments
 - 9.4.1. New Product Launches
 - 9.4.2. Partnership
 - 9.4.3. Collaboration
 - 9.4.4. Acquisition
 - 9.4.5. Product Development

CHAPTER 10: COMPANY PROFILES

- 10.1. International Business Machines Corporation
 - 10.1.1. Company Overview
 - 10.1.2. Key Executives
 - 10.1.3. Company Snapshot
 - 10.1.4. Operating Business Segments
 - 10.1.5. Product Portfolio
 - 10.1.6. R&D Expenditure
 - 10.1.7. Business Performance
 - 10.1.8. Key Strategic Moves And Developments
- 10.2. Kingston Technology Company, Inc.
 - 10.2.1. Company Overview
 - 10.2.2. Key Executives
 - 10.2.3. Company Snapshot
 - 10.2.4. Product Portfolio
 - 10.2.5. Key Strategic Moves And Developments
- 10.3. McAfee, LLC.
 - 10.3.1. Company Overview

- 10.3.2. Key Executives
- 10.3.3. Company Snapshot
- 10.3.4. Product Portfolio
- 10.4. Micron Technology, Inc.
 - 10.4.1. Company Overview
 - 10.4.2. Key Executives
 - 10.4.3. Company Snapshot
 - 10.4.4. Operating Business Segments
 - 10.4.5. Product Portfolio
 - 10.4.6. R&D Expenditure
 - 10.4.7. Business Performance
 - 10.4.8. Key Strategic Moves And Developments
- 10.5. Netapp
 - 10.5.1. Company Overview
 - 10.5.2. Key Executives
 - 10.5.3. Company Snapshot
 - 10.5.4. Product Portfolio
 - 10.5.5. R&D Expenditure
 - 10.5.6. Business Performance
 - 10.5.7. Key Strategic Moves And Developments
- 10.6. Samsung Electronics Co., Ltd.
 - 10.6.1. Company Overview
 - 10.6.2. Key Executives
 - 10.6.3. Company Snapshot
 - 10.6.4. Operating Business Segments
 - 10.6.5. Product Portfolio
 - 10.6.6. R&D Expenditure
 - 10.6.7. Business Performance
 - 10.6.8. Key Strategic Moves And Developments
- 10.7. Seagate Technology Llc
 - 10.7.1. Company Overview
 - 10.7.2. Key Executives
 - 10.7.3. Company Snapshot
 - 10.7.4. Product Portfolio
 - 10.7.5. Business Performance
 - 10.7.6. Key Strategic Moves And Developments
- 10.8. Symantec Corporation
 - 10.8.1. Company Overview
 - 10.8.2. Key Executives

- 10.8.3. Company Snapshot
- 10.8.4. Operating Business Segments
- 10.8.5. Product Portfolio
- 10.8.6. R&D Expenditure
- 10.8.7. Business Performance
- 10.8.8. Key Strategic Moves And Developments
- 10.9. Toshiba Corporation
 - 10.9.1. Company Overview
 - 10.9.2. Company Snapshot
 - 10.9.3. Operating Business Segments
 - 10.9.4. Product Portfolio
 - 10.9.5. R&D Expenditure
 - 10.9.6. Business Performance
- 10.10. Western Digital Technologies, Inc.
 - 10.10.1. Company Overview
 - 10.10.2. Key Executives
 - 10.10.3. Company Snapshot
 - 10.10.4. Product Portfolio
 - 10.10.5. R&D Expenditure
 - 10.10.6. Business Performance
 - 10.10.7. Key Strategic Moves And Developments

List Of Tables

LIST OF TABLES

Table 01. U.S. Hardware Encryption Market Revenue, By Algorithm And Standard, 2014-2017 (\$Billion)

Table 02. U.S. Hardware Encryption Market Revenue, By Algorithm And Standard, 2018–2026 (\$Billion)

Table 03. U.S. Hardware Encryption Market Revenue For Rsa, 2018–2026 (\$Billion)

Table 04. U.S. Hardware Encryption Market Revenue For Aes, 2018–2026 (\$Billion)

Table 05. U.S. Hardware Encryption Market Revenue For Other, 2018–2026 (\$Billion)

Table 06. U.S. Hardware Encryption Market Revenue, By Architecture, 2014-2017 (\$Billion)

Table 07. U.S. Hardware Encryption Market Revenue, By Architecture, 2018–2026 (\$Billion)

Table 08. U.S. Hardware Encryption Market Revenue For Asic, 2018–2026 (\$Billion)

Table 09. U.S. Hardware Encryption Market Revenue For Fpga, 2018–2026 (\$Billion)

Table 10. U.S. Hardware Encryption Market Revenue, By Product, 2014-2017 (\$Billion)

Table 11. U.S. Hardware Encryption Market Revenue, By Product, 2018–2026 (\$Billion)

Table 12. U.S. Hardware Encryption Market Volume, By Product, 2014-2017 (Million Units)

Table 13. U.S. Hardware Encryption Market Volume, By Product, 2018–2026 (Million Units)

Table 14. U.S. Hardware Encryption Market Revenue For Hdd, 2018–2026 (\$Billion)

Table 15. U.S. Hardware Encryption Market Revenue For Hdd, By Type, 2014-2017 (\$Billion)

Table 16. U.S. Hardware Encryption Market Revenue For Hdd, By Type, 2018–2026 (\$Billion)

Table 17. U.S. Hardware Encryption Market Volume For Hdd, By Type ,2014-2017, (Million Units)

Table 18. U.S. Hardware Encryption Market Volume For Hdd, By Type ,2018-2026, (Million Units)

Table 19. U.S. Hardware Encryption Market Revenue For Sdd, 2018–2026 (\$Billion)

Table 20. U.S. Hardware Encryption Market Revenue For Usb Flash Drive, 2018–2026 (\$Billion)

Table 21. U.S. Hardware Encryption Market Revenue For Usb Flash Drive, By Size, 2014-2017 (\$Billion)

Table 22. U.S. Hardware Encryption Market Revenue For Usb Flash Drive, By Size, 2018–2026 (\$Billion)

Table 23. U.S. Hardware Encryption Market Volume For Usb Flash Drive, By Size, 2014-2017 (Million Units)

Table 24. U.S. Hardware Encryption Market Volume For Usb Flash Drive, By Size, 2018-2026 (Million Units)

Table 25. U.S. Hardware Encryption Market Revenue For Inline Network Encryptors, 2018–2026 (\$Billion)

Table 26. U.S. Hardware Encryption Market Revenue, By Application, 2014-2017 (\$Billion)

Table 27. U.S. Hardware Encryption Market Revenue, By Application, 2018–2026 (\$Billion)

Table 28. U.S. Hardware Encryption Market Revenue For Consumer Electronics, 2018–2026 (\$Billion)

Table 29. U.S. Hardware Encryption Market Revenue For It And Telecom, 2018–2026 (\$Billion)

Table 30. U.S. Hardware Encryption Market Revenue For Automotive And Transportation, 2018–2026 (\$Billion)

Table 31. U.S. Hardware Encryption Market Revenue For Aerospace And Defense, 2018–2026 (\$Billion)

Table 32. U.S. Hardware Encryption Market Revenue For Healthcare, 2018–2026 (\$Billion)

Table 33. U.S. Hardware Encryption Market Revenue For Others, 2018–2026 (\$Billion)

Table 34. U.S. Hardware Encryption Market Revenue, By End Use, 2014-2017 (\$Billion)

Table 35. U.S. Hardware Encryption Market Revenue, By End Use, 2018–2026 (\$Billion)

Table 36. U.S. Hardware Encryption Market Revenue For Industrial, 2018–2026 (\$Billion)

Table 37. U.S. Hardware Encryption Market Revenue For Commercial, 2018–2026 (\$Billion)

Table 38. U.S. Hardware Encryption Market Revenue For Residential, 2018–2026 (\$Billion)

Table 39. U.S. Hardware Encryption Market Revenue For Government, 2018–2026 (\$Billion)

Table 40. Key New Product Launches (2016-2019)

Table 41. Partnership (2016-2019)

Table 42. Collaboration (2016-2019)

Table 43. Acquisition (2016-2019)

Table 44. Product Development (2016-2019)

Table 45. International Business Machines Corporation: Key Executives

Table 46. International Business Machines Corporation: Company Snapshot

- Table 47. International Business Machines Corporation: Operating Segments
- Table 48. International Business Machines Corporation: Product Portfolio
- Table 49. Kingston Technology Company, Inc.: Key Executives
- Table 50. Kingston Technology Company, Inc.: Company Snapshot
- Table 51. Kingston Technology Company, Inc.: Product Portfolio
- Table 52. McAfee, LLC.: Key Executives
- Table 53. McAfee, LLC.: Company Snapshot
- Table 54. McAfee, LLC.: Product Portfolio
- Table 55. Micron Technology, Inc.: Key Executives
- Table 56. Micron Technology, Inc.: Company Snapshot
- Table 57. Micron Technology, Inc.: Operating Segments
- Table 58. Micron Technology, Inc.: Product Portfolio
- Table 59. Netapp: Key Executives
- Table 60. Netapp: Company Snapshot
- Table 61. Netapp: Product Portfolio
- Table 62. Samsung Electronics Co., Ltd.: Key Executives
- Table 63. Samsung Electronics Co., Ltd.: Company Snapshot
- Table 64. Samsung Electronics Co., Ltd.: Operating Segments
- Table 65. Samsung Electronics Co., Ltd.: Product Portfolio
- Table 66. Seagate Technology LLC: Key Executives
- Table 67. Seagate Technology LLC: Company Snapshot
- Table 68. Seagate Technology LLC: Product Portfolio
- Table 69. Symantec Corporation: Key Executives
- Table 70. Symantec Corporation: Company Snapshot
- Table 71. Symantec Corporation: Operating Segments
- Table 72. Symantec Corporation: Product Portfolio
- Table 73. Toshiba Corporation: Key Executives
- Table 74. Toshiba Corporation: Company Snapshot
- Table 75. Symantec Corporation: Operating Segments
- Table 76. Toshiba Corporation: Product Portfolio
- Table 77. Western Digital Technologies, Inc.: Key Executives
- Table 78. Western Digital Technologies, Inc.: Company Snapshot
- Table 79. Western Digital Technologies, Inc.: Product Portfolio

List Of Figures

LIST OF FIGURES

- Figure 01. U.S. Hardware Encryption Market, 2019–2026
- Figure 02. U.S. Hardware Encryption Market, 2019–2026
- Figure 03. Top Impacting Factor
- Figure 04. Top Investment Pockets
- Figure 05. U.S. Hardware Encryption Market Segmentation
- Figure 06. High Bargaining Power of Suppliers
- Figure 07. High Bargaining Power of Buyers
- Figure 08. Moderate Threat of Substitutes
- Figure 09. Low-To-Moderate Threat of New Entrants
- Figure 10. High Competitive Rivalry
- Figure 11. Drivers, Restraints, And Opportunities
- Figure 12. U.S. Hardware Encryption Market Revenue, By Algorithm & Standard, 2018–2026 (\$Billion)
- Figure 13. U.S. Hardware Encryption Market Revenue, By Architecture, 2018–2026 (\$Billion)
- Figure 14. U.S. Hardware Encryption Market Revenue, By Product, 2018–2026 (\$Billion)
- Figure 15. U.S. Hardware Encryption Market Revenue, By Application, 2018–2026 (\$Billion)
- Figure 16. U.S. Hardware Encryption Market Revenue, By End Use, 2018–2026 (\$Billion)
- Figure 17. U.S. Hardware Encryption Market: Market Share Analysis, 2018
- Figure 18. Competitive Dashboard
- Figure 19. Competitive Dashboard
- Figure 20. Competitive Heatmap of Key Players
- Figure 21. Top Winning Strategies, By Year, 2016-2019
- Figure 22. Top Winning Strategies, By Development, 2016-2019
- Figure 23. Top Winning Strategies, By Company, 2016-2019
- Figure 24. R&D Expenditure, 2016–2018 (\$Million)
- Figure 25. International Business Machines Corporation: Revenue, 2016–2018 (\$Million)
- Figure 26. International Business Machines Corporation: Revenue Share By Segment, 2018 (%)
- Figure 27. International Business Machines Corporation: Revenue Share By Region, 2018 (%)

Figure 28. Kingston Technology Company, Inc.: U.S. Quarterly Hardware Encryption Revenue, 2018 (\$Million)

Figure 29. Kingston Technology Company, Inc.: Quarterly Hardware Encrypted Products Sales, 2018 (Million Units)

Figure 30. R&D Expenditure, 2017–2019 (\$Million)

Figure 31. Micron Technology, Inc.: Revenue, 2017–2019 (\$Million)

Figure 32. Micron Technology, Inc.: Revenue Share By Segment, 2019 (%)

Figure 33. Micron Technology, Inc.: Revenue Share By Region, 2019 (%)

Figure 34. Micron Technology, Inc.: U.S. Quarterly Hardware Encryption Revenue, 2018 (\$Million)

Figure 35. Micron Technology, Inc.: U.S. Quarterly Hardware Encrypted Ssd Sales, 2018 (Million Units)

Figure 36. R&D Expenditure, 2016–2018 (\$Million)

Figure 37. Netapp: Revenue, 2016–2018 (\$Million)

Figure 38. Netapp: Revenue Share By Region, 2018 (%)

Figure 39. R&D Expenditure, 2016–2018 (\$Million)

Figure 40. Samsung Electronics Co., Ltd.: Revenue, 2016–2018 (\$Million)

Figure 41. Samsung Electronics Co., Ltd.: Revenue Share By Segment, 2018 (%)

Figure 42. Samsung Electronics Co., Ltd.: Revenue Share By Region, 2018 (%)

Figure 43. Samsung Electronics Co., Ltd.: U.S. Quarterly Hardware Encryption Revenue, 2018 (\$Million)

Figure 44. Samsung Electronics Co., Ltd.: U.S. Quarterly Hardware Encryption Product Sales, 2018 (Million Units)

Figure 45. Seagate Technology Llc: Revenue, 2017–2019 (\$Million)

Figure 46. Seagate Technology Llc: Revenue Share By Region, 2019 (%)

Figure 47. Seagate Technology Llc: U.S. Quarterly Hardware Encryption Revenue, 2018 (\$Million)

Figure 48. Seagate Technology Llc: U.S. Quarterly Hardware Encryption Product Sales, 2018 (Million Units)

Figure 49. R&D Expenditure, 2016–2018 (\$Million)

Figure 50. Symantec Corporation: Revenue, 2016–2018 (\$Million)

Figure 51. Symantec Corporation: Revenue Share By Segment, 2018 (%)

Figure 52. Symantec Corporation: Revenue Share By Region, 2018 (%)

Figure 53. R&D Expenditure, 2016–2018 (\$Million)

Figure 54. Toshiba Corporation: Revenue, 2016–2018 (\$Million)

Figure 55. Toshiba Corporation: Revenue Share By Segment, 2018 (%)

Figure 56. Toshiba Corporation: Revenue Share By Region, 2018 (%)

Figure 57. R&D Expenditure, 2017–2019 (\$Million)

Figure 58. Western Digital Technologies, Inc.: Revenue, 2017–2019 (\$Million)

Figure 59. Western Digital Technologies, Inc.: Revenue Share By Region, 2019 (%)

Figure 60. Western Digital Technologies, Inc.: U.S. Quarterly Hardware Encryption Revenue, 2018 (\$Million)

Figure 61. Western Digital Technologies, Inc.: U.S. Quarterly Hardware Encryption Product Sales, 2018 (Million Units)

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