

Global Embedded Security Chips and Modules Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

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

In this internet age, identity theft, intellectual property protection, and financial account and payment protection are key concerns to both consumers and designers. To keep everything safe, many systems employ security measures such as data encryption and physical shielding to prevent hackers and other malicious activities from accessing data, financial information, or even intellectual property. Even the simple car door entry key/ignition key has become more secure with embedded processors running challenge and response authentication to prevent vehicle theft. Furthermore, the movement to 'smarten' the energy grid will also escalate the demand for secure communications to prevent hackers or terrorists from wreaking havoc on the power grid. This report studies the Embedded Security market, including embedded Secure Element (eSE) & Embedded SIM, and Trusted Platform Module.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0%

year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

The Global Info Research report includes an overview of the development of the Embedded Security Chips and Modules industry chain, the market status of Mobile Secure Transactions (Embedded Secure Element and Embedded SIM, Trusted Platform Module), Authentication (Embedded Secure Element and Embedded SIM, Trusted Platform Module), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Embedded Security Chips and Modules.

Regionally, the report analyzes the Embedded Security Chips and Modules 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 Embedded Security Chips and Modules market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Embedded Security Chips and Modules 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 Embedded Security Chips and Modules 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 sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Embedded Secure Element and Embedded SIM, Trusted Platform Module).

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 Embedded Security Chips and Modules market.

Regional Analysis: The report involves examining the Embedded Security Chips and

Modules 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 Embedded Security Chips and Modules market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Embedded Security Chips and Modules:

Company Analysis: Report covers individual Embedded Security Chips and Modules manufacturers, 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 Embedded Security Chips and Modules. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Mobile Secure Transactions, Authentication).

Technology Analysis: Report covers specific technologies relevant to Embedded Security Chips and Modules. It assesses the current state, advancements, and potential future developments in Embedded Security Chips and Modules areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Embedded Security Chips and Modules 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

Embedded Security Chips and Modules 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.

Market segment by Type

Embedded Secure Element and Embedded SIM

Trusted Platform Module

Market segment by Application

Mobile Secure Transactions

Authentication

Smart Cards

Others

Major players covered

NXP Semiconductors

Infineon

STMicroelectronics

Gemalto

IDEMIA

Microchip

Huada Semiconductor Co., Ltd.

Maxim Integrated

Renesas Electronics Corporation.

Samsung

Intel

Nuvoton Technology Corporation

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 Embedded Security Chips and Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Embedded Security Chips and Modules, with price, sales, revenue and global market share of Embedded Security Chips and Modules from 2019 to 2024.

Chapter 3, the Embedded Security Chips and Modules competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Embedded Security Chips and Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, 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 2017 to 2023. and Embedded Security Chips and Modules market forecast, by regions, type and 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 Embedded Security Chips and Modules.

Chapter 14 and 15, to describe Embedded Security Chips and Modules sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Embedded Security Chips and Modules
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Embedded Security Chips and Modules Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 Embedded Secure Element and Embedded SIM
 - 1.3.3 Trusted Platform Module
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Embedded Security Chips and Modules Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Mobile Secure Transactions
 - 1.4.3 Authentication
 - 1.4.4 Smart Cards
 - 1.4.5 Others
- 1.5 Global Embedded Security Chips and Modules Market Size & Forecast
 - 1.5.1 Global Embedded Security Chips and Modules Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global Embedded Security Chips and Modules Sales Quantity (2019-2030)
 - 1.5.3 Global Embedded Security Chips and Modules Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 NXP Semiconductors
 - 2.1.1 NXP Semiconductors Details
 - 2.1.2 NXP Semiconductors Major Business
 - 2.1.3 NXP Semiconductors Embedded Security Chips and Modules Product and Services
 - 2.1.4 NXP Semiconductors Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 NXP Semiconductors Recent Developments/Updates
- 2.2 Infineon
 - 2.2.1 Infineon Details
 - 2.2.2 Infineon Major Business
 - 2.2.3 Infineon Embedded Security Chips and Modules Product and Services
 - 2.2.4 Infineon Embedded Security Chips and Modules Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Infineon Recent Developments/Updates

2.3 STMicroelectronics

2.3.1 STMicroelectronics Details

2.3.2 STMicroelectronics Major Business

2.3.3 STMicroelectronics Embedded Security Chips and Modules Product and Services

2.3.4 STMicroelectronics Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 STMicroelectronics Recent Developments/Updates

2.4 Gemalto

2.4.1 Gemalto Details

2.4.2 Gemalto Major Business

2.4.3 Gemalto Embedded Security Chips and Modules Product and Services

2.4.4 Gemalto Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Gemalto Recent Developments/Updates

2.5 IDEMIA

2.5.1 IDEMIA Details

2.5.2 IDEMIA Major Business

2.5.3 IDEMIA Embedded Security Chips and Modules Product and Services

2.5.4 IDEMIA Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 IDEMIA Recent Developments/Updates

2.6 Microchip

2.6.1 Microchip Details

2.6.2 Microchip Major Business

2.6.3 Microchip Embedded Security Chips and Modules Product and Services

2.6.4 Microchip Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Microchip Recent Developments/Updates

2.7 Huada Semiconductor Co., Ltd.

2.7.1 Huada Semiconductor Co., Ltd. Details

2.7.2 Huada Semiconductor Co., Ltd. Major Business

2.7.3 Huada Semiconductor Co., Ltd. Embedded Security Chips and Modules Product and Services

2.7.4 Huada Semiconductor Co., Ltd. Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Huada Semiconductor Co., Ltd. Recent Developments/Updates

2.8 Maxim Integrated

2.8.1 Maxim Integrated Details

2.8.2 Maxim Integrated Major Business

2.8.3 Maxim Integrated Embedded Security Chips and Modules Product and Services

2.8.4 Maxim Integrated Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Maxim Integrated Recent Developments/Updates

2.9 Renesas Electronics Corporation.

2.9.1 Renesas Electronics Corporation. Details

2.9.2 Renesas Electronics Corporation. Major Business

2.9.3 Renesas Electronics Corporation. Embedded Security Chips and Modules Product and Services

2.9.4 Renesas Electronics Corporation. Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Renesas Electronics Corporation. Recent Developments/Updates

2.10 Samsung

2.10.1 Samsung Details

2.10.2 Samsung Major Business

2.10.3 Samsung Embedded Security Chips and Modules Product and Services

2.10.4 Samsung Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Samsung Recent Developments/Updates

2.11 Intel

2.11.1 Intel Details

2.11.2 Intel Major Business

2.11.3 Intel Embedded Security Chips and Modules Product and Services

2.11.4 Intel Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Intel Recent Developments/Updates

2.12 Nuvoton Technology Corporation

2.12.1 Nuvoton Technology Corporation Details

2.12.2 Nuvoton Technology Corporation Major Business

2.12.3 Nuvoton Technology Corporation Embedded Security Chips and Modules Product and Services

2.12.4 Nuvoton Technology Corporation Embedded Security Chips and Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Nuvoton Technology Corporation Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: EMBEDDED SECURITY CHIPS AND MODULES

BY MANUFACTURER

3.1 Global Embedded Security Chips and Modules Sales Quantity by Manufacturer (2019-2024)

3.2 Global Embedded Security Chips and Modules Revenue by Manufacturer (2019-2024)

3.3 Global Embedded Security Chips and Modules Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Embedded Security Chips and Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Embedded Security Chips and Modules Manufacturer Market Share in 2023

3.4.2 Top 6 Embedded Security Chips and Modules Manufacturer Market Share in 2023

3.5 Embedded Security Chips and Modules Market: Overall Company Footprint Analysis

3.5.1 Embedded Security Chips and Modules Market: Region Footprint

3.5.2 Embedded Security Chips and Modules Market: Company Product Type Footprint

3.5.3 Embedded Security Chips and Modules Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Embedded Security Chips and Modules Market Size by Region

4.1.1 Global Embedded Security Chips and Modules Sales Quantity by Region (2019-2030)

4.1.2 Global Embedded Security Chips and Modules Consumption Value by Region (2019-2030)

4.1.3 Global Embedded Security Chips and Modules Average Price by Region (2019-2030)

4.2 North America Embedded Security Chips and Modules Consumption Value (2019-2030)

4.3 Europe Embedded Security Chips and Modules Consumption Value (2019-2030)

4.4 Asia-Pacific Embedded Security Chips and Modules Consumption Value (2019-2030)

4.5 South America Embedded Security Chips and Modules Consumption Value
(2019-2030)

4.6 Middle East and Africa Embedded Security Chips and Modules Consumption Value
(2019-2030)

5 MARKET SEGMENT BY TYPE

5.1 Global Embedded Security Chips and Modules Sales Quantity by Type (2019-2030)

5.2 Global Embedded Security Chips and Modules Consumption Value by Type
(2019-2030)

5.3 Global Embedded Security Chips and Modules Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Embedded Security Chips and Modules Sales Quantity by Application
(2019-2030)

6.2 Global Embedded Security Chips and Modules Consumption Value by Application
(2019-2030)

6.3 Global Embedded Security Chips and Modules Average Price by Application
(2019-2030)

7 NORTH AMERICA

7.1 North America Embedded Security Chips and Modules Sales Quantity by Type
(2019-2030)

7.2 North America Embedded Security Chips and Modules Sales Quantity by
Application (2019-2030)

7.3 North America Embedded Security Chips and Modules Market Size by Country

7.3.1 North America Embedded Security Chips and Modules Sales Quantity by
Country (2019-2030)

7.3.2 North America Embedded Security Chips and Modules Consumption Value by
Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Embedded Security Chips and Modules Sales Quantity by Type

(2019-2030)

8.2 Europe Embedded Security Chips and Modules Sales Quantity by Application
(2019-2030)

8.3 Europe Embedded Security Chips and Modules Market Size by Country

8.3.1 Europe Embedded Security Chips and Modules Sales Quantity by Country
(2019-2030)

8.3.2 Europe Embedded Security Chips and Modules Consumption Value by Country
(2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Type
(2019-2030)

9.2 Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Application
(2019-2030)

9.3 Asia-Pacific Embedded Security Chips and Modules Market Size by Region

9.3.1 Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Region
(2019-2030)

9.3.2 Asia-Pacific Embedded Security Chips and Modules Consumption Value by
Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Embedded Security Chips and Modules Sales Quantity by Type
(2019-2030)

10.2 South America Embedded Security Chips and Modules Sales Quantity by
Application (2019-2030)

10.3 South America Embedded Security Chips and Modules Market Size by Country

10.3.1 South America Embedded Security Chips and Modules Sales Quantity by Country (2019-2030)

10.3.2 South America Embedded Security Chips and Modules Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Embedded Security Chips and Modules Market Size by Country

11.3.1 Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Embedded Security Chips and Modules Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 Embedded Security Chips and Modules Market Drivers

12.2 Embedded Security Chips and Modules Market Restraints

12.3 Embedded Security Chips and Modules Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Embedded Security Chips and Modules and Key Manufacturers

- 13.2 Manufacturing Costs Percentage of Embedded Security Chips and Modules
- 13.3 Embedded Security Chips and Modules Production Process
- 13.4 Embedded Security Chips and Modules Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Embedded Security Chips and Modules Typical Distributors
- 14.3 Embedded Security Chips and Modules Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Embedded Security Chips and Modules Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Embedded Security Chips and Modules Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 4. NXP Semiconductors Major Business

Table 5. NXP Semiconductors Embedded Security Chips and Modules Product and Services

Table 6. NXP Semiconductors Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. NXP Semiconductors Recent Developments/Updates

Table 8. Infineon Basic Information, Manufacturing Base and Competitors

Table 9. Infineon Major Business

Table 10. Infineon Embedded Security Chips and Modules Product and Services

Table 11. Infineon Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Infineon Recent Developments/Updates

Table 13. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 14. STMicroelectronics Major Business

Table 15. STMicroelectronics Embedded Security Chips and Modules Product and Services

Table 16. STMicroelectronics Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. STMicroelectronics Recent Developments/Updates

Table 18. Gemalto Basic Information, Manufacturing Base and Competitors

Table 19. Gemalto Major Business

Table 20. Gemalto Embedded Security Chips and Modules Product and Services

Table 21. Gemalto Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Gemalto Recent Developments/Updates

Table 23. IDEMIA Basic Information, Manufacturing Base and Competitors

Table 24. IDEMIA Major Business

Table 25. IDEMIA Embedded Security Chips and Modules Product and Services

Table 26. IDEMIA Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. IDEMIA Recent Developments/Updates

Table 28. Microchip Basic Information, Manufacturing Base and Competitors

Table 29. Microchip Major Business

Table 30. Microchip Embedded Security Chips and Modules Product and Services

Table 31. Microchip Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Microchip Recent Developments/Updates

Table 33. Huada Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 34. Huada Semiconductor Co., Ltd. Major Business

Table 35. Huada Semiconductor Co., Ltd. Embedded Security Chips and Modules Product and Services

Table 36. Huada Semiconductor Co., Ltd. Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Huada Semiconductor Co., Ltd. Recent Developments/Updates

Table 38. Maxim Integrated Basic Information, Manufacturing Base and Competitors

Table 39. Maxim Integrated Major Business

Table 40. Maxim Integrated Embedded Security Chips and Modules Product and Services

Table 41. Maxim Integrated Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Maxim Integrated Recent Developments/Updates

Table 43. Renesas Electronics Corporation. Basic Information, Manufacturing Base and Competitors

Table 44. Renesas Electronics Corporation. Major Business

Table 45. Renesas Electronics Corporation. Embedded Security Chips and Modules Product and Services

Table 46. Renesas Electronics Corporation. Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Renesas Electronics Corporation. Recent Developments/Updates

Table 48. Samsung Basic Information, Manufacturing Base and Competitors

Table 49. Samsung Major Business

Table 50. Samsung Embedded Security Chips and Modules Product and Services

Table 51. Samsung Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Samsung Recent Developments/Updates

Table 53. Intel Basic Information, Manufacturing Base and Competitors

Table 54. Intel Major Business

Table 55. Intel Embedded Security Chips and Modules Product and Services

Table 56. Intel Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Intel Recent Developments/Updates

Table 58. Nuvoton Technology Corporation Basic Information, Manufacturing Base and Competitors

Table 59. Nuvoton Technology Corporation Major Business

Table 60. Nuvoton Technology Corporation Embedded Security Chips and Modules Product and Services

Table 61. Nuvoton Technology Corporation Embedded Security Chips and Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Nuvoton Technology Corporation Recent Developments/Updates

Table 63. Global Embedded Security Chips and Modules Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 64. Global Embedded Security Chips and Modules Revenue by Manufacturer (2019-2024) & (USD Million)

Table 65. Global Embedded Security Chips and Modules Average Price by Manufacturer (2019-2024) & (US\$/Unit)

Table 66. Market Position of Manufacturers in Embedded Security Chips and Modules, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 67. Head Office and Embedded Security Chips and Modules Production Site of Key Manufacturer

Table 68. Embedded Security Chips and Modules Market: Company Product Type Footprint

Table 69. Embedded Security Chips and Modules Market: Company Product Application Footprint

Table 70. Embedded Security Chips and Modules New Market Entrants and Barriers to Market Entry

Table 71. Embedded Security Chips and Modules Mergers, Acquisition, Agreements, and Collaborations

Table 72. Global Embedded Security Chips and Modules Sales Quantity by Region (2019-2024) & (K Units)

Table 73. Global Embedded Security Chips and Modules Sales Quantity by Region (2025-2030) & (K Units)

Table 74. Global Embedded Security Chips and Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 75. Global Embedded Security Chips and Modules Consumption Value by Region (2025-2030) & (USD Million)

Table 76. Global Embedded Security Chips and Modules Average Price by Region (2019-2024) & (US\$/Unit)

Table 77. Global Embedded Security Chips and Modules Average Price by Region (2025-2030) & (US\$/Unit)

Table 78. Global Embedded Security Chips and Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 79. Global Embedded Security Chips and Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 80. Global Embedded Security Chips and Modules Consumption Value by Type (2019-2024) & (USD Million)

Table 81. Global Embedded Security Chips and Modules Consumption Value by Type (2025-2030) & (USD Million)

Table 82. Global Embedded Security Chips and Modules Average Price by Type (2019-2024) & (US\$/Unit)

Table 83. Global Embedded Security Chips and Modules Average Price by Type (2025-2030) & (US\$/Unit)

Table 84. Global Embedded Security Chips and Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 85. Global Embedded Security Chips and Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 86. Global Embedded Security Chips and Modules Consumption Value by Application (2019-2024) & (USD Million)

Table 87. Global Embedded Security Chips and Modules Consumption Value by Application (2025-2030) & (USD Million)

Table 88. Global Embedded Security Chips and Modules Average Price by Application (2019-2024) & (US\$/Unit)

Table 89. Global Embedded Security Chips and Modules Average Price by Application (2025-2030) & (US\$/Unit)

Table 90. North America Embedded Security Chips and Modules Sales Quantity by

Type (2019-2024) & (K Units)

Table 91. North America Embedded Security Chips and Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 92. North America Embedded Security Chips and Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 93. North America Embedded Security Chips and Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 94. North America Embedded Security Chips and Modules Sales Quantity by Country (2019-2024) & (K Units)

Table 95. North America Embedded Security Chips and Modules Sales Quantity by Country (2025-2030) & (K Units)

Table 96. North America Embedded Security Chips and Modules Consumption Value by Country (2019-2024) & (USD Million)

Table 97. North America Embedded Security Chips and Modules Consumption Value by Country (2025-2030) & (USD Million)

Table 98. Europe Embedded Security Chips and Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 99. Europe Embedded Security Chips and Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 100. Europe Embedded Security Chips and Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 101. Europe Embedded Security Chips and Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 102. Europe Embedded Security Chips and Modules Sales Quantity by Country (2019-2024) & (K Units)

Table 103. Europe Embedded Security Chips and Modules Sales Quantity by Country (2025-2030) & (K Units)

Table 104. Europe Embedded Security Chips and Modules Consumption Value by Country (2019-2024) & (USD Million)

Table 105. Europe Embedded Security Chips and Modules Consumption Value by Country (2025-2030) & (USD Million)

Table 106. Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 107. Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 108. Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 109. Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 110. Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Region (2019-2024) & (K Units)

Table 111. Asia-Pacific Embedded Security Chips and Modules Sales Quantity by Region (2025-2030) & (K Units)

Table 112. Asia-Pacific Embedded Security Chips and Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 113. Asia-Pacific Embedded Security Chips and Modules Consumption Value by Region (2025-2030) & (USD Million)

Table 114. South America Embedded Security Chips and Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 115. South America Embedded Security Chips and Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 116. South America Embedded Security Chips and Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 117. South America Embedded Security Chips and Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 118. South America Embedded Security Chips and Modules Sales Quantity by Country (2019-2024) & (K Units)

Table 119. South America Embedded Security Chips and Modules Sales Quantity by Country (2025-2030) & (K Units)

Table 120. South America Embedded Security Chips and Modules Consumption Value by Country (2019-2024) & (USD Million)

Table 121. South America Embedded Security Chips and Modules Consumption Value by Country (2025-2030) & (USD Million)

Table 122. Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Type (2019-2024) & (K Units)

Table 123. Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Type (2025-2030) & (K Units)

Table 124. Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Application (2019-2024) & (K Units)

Table 125. Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Application (2025-2030) & (K Units)

Table 126. Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Region (2019-2024) & (K Units)

Table 127. Middle East & Africa Embedded Security Chips and Modules Sales Quantity by Region (2025-2030) & (K Units)

Table 128. Middle East & Africa Embedded Security Chips and Modules Consumption Value by Region (2019-2024) & (USD Million)

Table 129. Middle East & Africa Embedded Security Chips and Modules Consumption

Value by Region (2025-2030) & (USD Million)

Table 130. Embedded Security Chips and Modules Raw Material

Table 131. Key Manufacturers of Embedded Security Chips and Modules Raw Materials

Table 132. Embedded Security Chips and Modules Typical Distributors

Table 133. Embedded Security Chips and Modules Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Embedded Security Chips and Modules Picture
- Figure 2. Global Embedded Security Chips and Modules Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global Embedded Security Chips and Modules Consumption Value Market Share by Type in 2023
- Figure 4. Embedded Secure Element and Embedded SIM Examples
- Figure 5. Trusted Platform Module Examples
- Figure 6. Global Embedded Security Chips and Modules Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 7. Global Embedded Security Chips and Modules Consumption Value Market Share by Application in 2023
- Figure 8. Mobile Secure Transactions Examples
- Figure 9. Authentication Examples
- Figure 10. Smart Cards Examples
- Figure 11. Others Examples
- Figure 12. Global Embedded Security Chips and Modules Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 13. Global Embedded Security Chips and Modules Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 14. Global Embedded Security Chips and Modules Sales Quantity (2019-2030) & (K Units)
- Figure 15. Global Embedded Security Chips and Modules Average Price (2019-2030) & (US\$/Unit)
- Figure 16. Global Embedded Security Chips and Modules Sales Quantity Market Share by Manufacturer in 2023
- Figure 17. Global Embedded Security Chips and Modules Consumption Value Market Share by Manufacturer in 2023
- Figure 18. Producer Shipments of Embedded Security Chips and Modules by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023
- Figure 19. Top 3 Embedded Security Chips and Modules Manufacturer (Consumption Value) Market Share in 2023
- Figure 20. Top 6 Embedded Security Chips and Modules Manufacturer (Consumption Value) Market Share in 2023
- Figure 21. Global Embedded Security Chips and Modules Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global Embedded Security Chips and Modules Consumption Value Market Share by Region (2019-2030)

Figure 23. North America Embedded Security Chips and Modules Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe Embedded Security Chips and Modules Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific Embedded Security Chips and Modules Consumption Value (2019-2030) & (USD Million)

Figure 26. South America Embedded Security Chips and Modules Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa Embedded Security Chips and Modules Consumption Value (2019-2030) & (USD Million)

Figure 28. Global Embedded Security Chips and Modules Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global Embedded Security Chips and Modules Consumption Value Market Share by Type (2019-2030)

Figure 30. Global Embedded Security Chips and Modules Average Price by Type (2019-2030) & (US\$/Unit)

Figure 31. Global Embedded Security Chips and Modules Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global Embedded Security Chips and Modules Consumption Value Market Share by Application (2019-2030)

Figure 33. Global Embedded Security Chips and Modules Average Price by Application (2019-2030) & (US\$/Unit)

Figure 34. North America Embedded Security Chips and Modules Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America Embedded Security Chips and Modules Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America Embedded Security Chips and Modules Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America Embedded Security Chips and Modules Consumption Value Market Share by Country (2019-2030)

Figure 38. United States Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe Embedded Security Chips and Modules Sales Quantity Market Share

by Type (2019-2030)

Figure 42. Europe Embedded Security Chips and Modules Sales Quantity Market Share by Application (2019-2030)

Figure 43. Europe Embedded Security Chips and Modules Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe Embedded Security Chips and Modules Consumption Value Market Share by Country (2019-2030)

Figure 45. Germany Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. France Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. United Kingdom Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Russia Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Italy Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Asia-Pacific Embedded Security Chips and Modules Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific Embedded Security Chips and Modules Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific Embedded Security Chips and Modules Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific Embedded Security Chips and Modules Consumption Value Market Share by Region (2019-2030)

Figure 54. China Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Japan Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Korea Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. India Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Southeast Asia Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Australia Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. South America Embedded Security Chips and Modules Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America Embedded Security Chips and Modules Sales Quantity Market Share by Application (2019-2030)

Figure 62. South America Embedded Security Chips and Modules Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America Embedded Security Chips and Modules Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa Embedded Security Chips and Modules Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa Embedded Security Chips and Modules Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa Embedded Security Chips and Modules Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa Embedded Security Chips and Modules Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa Embedded Security Chips and Modules Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Embedded Security Chips and Modules Market Drivers

Figure 75. Embedded Security Chips and Modules Market Restraints

Figure 76. Embedded Security Chips and Modules Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Embedded Security Chips and Modules in 2023

Figure 79. Manufacturing Process Analysis of Embedded Security Chips and Modules

Figure 80. Embedded Security Chips and Modules Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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