

Global Embedded Security Market Size Study & Forecast, by Component (Hardware, Service), By Application (Payment, Authentication, Content Protection), By End-user (Automotive, Healthcare, Consumer Electronics, Telecommunications, Aerospace & Defense, Others), and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G808B8F2E301EN.html>

Date: October 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G808B8F2E301EN

Abstracts

Global Embedded Security Market is valued at approximately USD 8.92 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 10.9% over the forecast period 2023-2030. Embedded security refers to the use of security technologies and procedures within embedded systems to guard against unauthorized access, manipulation, data breaches, and other online dangers. Embedded systems are specialized computers created for performing certain tasks inside a larger system or devices. The primary objectives of embedded security are to protect the availability, integrity, and confidentiality of embedded systems and the data they manage. The embedded system and its components are safeguarded throughout their existence using a combination of hardware- and software-based security techniques. Factors such as the inclusion of payment functionality in wearables, increasing government support for digitization, surging incidences of data breaches and cyberattacks, and growing demand for embedded security in electric and hybrid vehicles are bolstering the market demand in the global market. For instance, in December 2021, the Government of Australia invested USD 135.9 million under its program to transform the economy into a digital economy by 2030.

The increasing demand for security in connected devices is playing a vital role in bolstering the adoption of the embedded security market across the world. Embedded

security solutions are used to protect these devices from cyberattacks. As per the Statista report, in 2019, it was estimated there were approximately 8.6 billion Internet of Things (IoT) connected devices were recorded globally, which is anticipated to rise to around 19.1 billion devices by 2025. Therefore, embedded security plays a critical role in securing IoT devices, protecting data transfers, ensuring device authentication, and maintaining the integrity and privacy of IoT ecosystems, which is augmenting the growth of the embedded security market. Moreover, the surge adoption of IoT, as well as the introduction of 5G and the development of 5G-enabled embedded devices present numerous lucrative opportunities over the anticipated period. However, the complexities involved in designing embedded systems and the high energy consumption associated with compact embedded systems are challenging the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Embedded Security Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the growing concerns for cybersecurity, as well as increasing adoption of embedded device security and critical infrastructure protection devices in the aerospace & defense sector and automotive industry. Whereas, North America is expected to grow at a considerable CAGR over the forecasting years. The high adoption of IoT and connected devices, advancements in hardware and software technologies, and increased awareness and adoption of security by design are significantly propelling the market demand across the region.

Major market players included in this report are:

Analog Devices Inc (U.S.)

Bae Systems Plc (U.K.)

Broadcom Inc (U.S.)

CISCO System Inc. (U.S.)

Infineon Technologies AG (Germany)

STMicroelectronics N.V. (Switzerland)

NXP Semiconductors N.V. (Netherlands)

IBM Corporation (U.S.)

MCAFEE LLC (U.S.)

Microchip Technology Inc. (U.S.)

Recent Developments in the Market:

In May 2022, Microsoft Corporation collaborated with STMicroelectronics, a supplier of embedded and cyber security services as well as several semiconductor devices for the aerospace and automotive industries. The ultra-low-power STM32U5 MCUs (microcontrollers) from ST are combined with Microsoft Azure RTOS & IoT Middleware as part of this agreement, which offers a trusted platform module for securing the embedded architecture of IoT systems.

In May 2022, Advantech, a developer of the Internet of Things (IoT) and automation technologies, launched its UNO Embedded Automation Computer platform. This newly introduced platform is equipped with Canonical's Ubuntu Operating System (OS), which has enhanced security and advanced IoT system capabilities.

Global Embedded Security Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Component, Application, End-user, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:

Hardware

Service

By Application:

Payment

Authentication

Content Protection

By End-user:

Automotive

Healthcare

Consumer Electronics

Telecommunications

Aerospace & Defense

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Embedded Security Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Embedded Security Market, by Component, 2020-2030 (USD Billion)
 - 1.2.3. Embedded Security Market, by Application, 2020-2030 (USD Billion)
 - 1.2.4. Embedded Security Market, by End-user, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL EMBEDDED SECURITY MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL EMBEDDED SECURITY MARKET DYNAMICS

- 3.1. Embedded Security Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Increasing demand for security in connected devices
 - 3.1.1.2. Surging incidences of data breaches and cyberattacks
 - 3.1.2. Market Challenges
 - 3.1.2.1. Complexities involved in designing embedded systems
 - 3.1.2.2. High energy consumption associated with compact embedded systems
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Surge adoption of IoT
 - 3.1.3.2. Introduction of 5G and development of 5G-enabled embedded devices

CHAPTER 4. GLOBAL EMBEDDED SECURITY MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL EMBEDDED SECURITY MARKET, BY COMPONENT

- 5.1. Market Snapshot
- 5.2. Global Embedded Security Market by Component, Performance - Potential Analysis
- 5.3. Global Embedded Security Market Estimates & Forecasts by Component 2020-2030 (USD Billion)
- 5.4. Embedded Security Market, Sub Segment Analysis
 - 5.4.1. Hardware
 - 5.4.2. Service

CHAPTER 6. GLOBAL EMBEDDED SECURITY MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Embedded Security Market by Application, Performance - Potential Analysis
- 6.3. Global Embedded Security Market Estimates & Forecasts by Application 2020-2030 (USD Billion)
- 6.4. Embedded Security Market, Sub Segment Analysis
 - 6.4.1. Payment

6.4.2. Authentication

6.4.3. Content Protection

CHAPTER 7. GLOBAL EMBEDDED SECURITY MARKET, BY END-USER

7.1. Market Snapshot

7.2. Global Embedded Security Market by End-user, Performance - Potential Analysis

7.3. Global Embedded Security Market Estimates & Forecasts by End-user 2020-2030 (USD Billion)

7.4. Embedded Security Market, Sub Segment Analysis

7.4.1. Automotive

7.4.2. Healthcare

7.4.3. Consumer Electronics

7.4.4. Telecommunications

7.4.5. Aerospace & Defence

7.4.6. Others

CHAPTER 8. GLOBAL EMBEDDED SECURITY MARKET, REGIONAL ANALYSIS

8.1. Top Leading Countries

8.2. Top Emerging Countries

8.3. Embedded Security Market, Regional Market Snapshot

8.4. North America Embedded Security Market

8.4.1. U.S. Embedded Security Market

8.4.1.1. Component breakdown estimates & forecasts, 2020-2030

8.4.1.2. Application breakdown estimates & forecasts, 2020-2030

8.4.1.3. End-user breakdown estimates & forecasts, 2020-2030

8.4.2. Canada Embedded Security Market

8.5. Europe Embedded Security Market Snapshot

8.5.1. U.K. Embedded Security Market

8.5.2. Germany Embedded Security Market

8.5.3. France Embedded Security Market

8.5.4. Spain Embedded Security Market

8.5.5. Italy Embedded Security Market

8.5.6. Rest of Europe Embedded Security Market

8.6. Asia-Pacific Embedded Security Market Snapshot

8.6.1. China Embedded Security Market

8.6.2. India Embedded Security Market

8.6.3. Japan Embedded Security Market

- 8.6.4. Australia Embedded Security Market
- 8.6.5. South Korea Embedded Security Market
- 8.6.6. Rest of Asia Pacific Embedded Security Market
- 8.7. Latin America Embedded Security Market Snapshot
 - 8.7.1. Brazil Embedded Security Market
 - 8.7.2. Mexico Embedded Security Market
- 8.8. Middle East & Africa Embedded Security Market
 - 8.8.1. Saudi Arabia Embedded Security Market
 - 8.8.2. South Africa Embedded Security Market
 - 8.8.3. Rest of Middle East & Africa Embedded Security Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Analog Devices Inc (U.S.)
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Recent Developments
 - 9.3.2. Bae Systems Plc (U.K.)
 - 9.3.3. Broadcom Inc (U.S.)
 - 9.3.4. CISCO System Inc (U.S.)
 - 9.3.5. Infineon Technologies AG (Germany)
 - 9.3.6. STMicroelectronics N.V. (Switzerland)
 - 9.3.7. NXP Semiconductors N.V. (Netherlands)
 - 9.3.8. IBM Corporation (U.S.)
 - 9.3.9. MCAFEE LLC (U.S.)
 - 9.3.10. Microchip Technology d(U.S.)

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining

- 10.1.2. Analysis
- 10.1.3. Market Estimation
- 10.1.4. Validation
- 10.1.5. Publishing
- 10.2. Research Attributes
- 10.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Embedded Security Market, report scope

TABLE 2. Global Embedded Security Market estimates & forecasts by Region
2020-2030 (USD Billion)

TABLE 3. Global Embedded Security Market estimates & forecasts by Component
2020-2030 (USD Billion)

TABLE 4. Global Embedded Security Market estimates & forecasts by Application
2020-2030 (USD Billion)

TABLE 5. Global Embedded Security Market estimates & forecasts by End-user
2020-2030 (USD Billion)

TABLE 6. Global Embedded Security Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 7. Global Embedded Security Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 8. Global Embedded Security Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 9. Global Embedded Security Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 10. Global Embedded Security Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 11. Global Embedded Security Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 12. Global Embedded Security Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 13. Global Embedded Security Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 14. Global Embedded Security Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 15. Global Embedded Security Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 16. U.S. Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 17. U.S. Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 18. U.S. Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 19. Canada Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 20. Canada Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. Canada Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. UK Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 23. UK Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. UK Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. Germany Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 26. Germany Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. Germany Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. France Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 29. France Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. France Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. Italy Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 32. Italy Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Italy Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Spain Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 35. Spain Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. Spain Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. RoE Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 38. RoE Embedded Security Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 39. RoE Embedded Security Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 40. China Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 41. China Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 42. China Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 43. India Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 44. India Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 45. India Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 46. Japan Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 47. Japan Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 48. Japan Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 49. South Korea Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 50. South Korea Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 51. South Korea Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 52. Australia Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 53. Australia Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 54. Australia Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 55. RoAPAC Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 56. RoAPAC Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 57. RoAPAC Embedded Security Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 58. Brazil Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 59. Brazil Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Brazil Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Mexico Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 62. Mexico Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. Mexico Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. RoLA Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 65. RoLA Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. RoLA Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. Saudi Arabia Embedded Security Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 68. South Africa Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. RoMEA Embedded Security Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global Embedded Security Market

TABLE 71. List of primary sources, used in the study of global Embedded Security Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Embedded Security Market, research methodology
 - FIG 2. Global Embedded Security Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Embedded Security Market, key trends 2022
 - FIG 5. Global Embedded Security Market, growth prospects 2023-2030
 - FIG 6. Global Embedded Security Market, porters 5 force model
 - FIG 7. Global Embedded Security Market, pest analysis
 - FIG 8. Global Embedded Security Market, value chain analysis
 - FIG 9. Global Embedded Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Embedded Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Embedded Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Embedded Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Embedded Security Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Embedded Security Market, regional snapshot 2020 & 2030
 - FIG 15. North America Embedded Security Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Embedded Security Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia pacific Embedded Security Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Embedded Security Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Embedded Security Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

I would like to order

Product name: Global Embedded Security Market Size Study & Forecast, by Component (Hardware, Service), By Application (Payment, Authentication, Content Protection), By End-user (Automotive, Healthcare, Consumer Electronics, Telecommunications, Aerospace & Defense, Others), and Regional Analysis, 2023-2030

Product link: <https://marketpublishers.com/r/G808B8F2E301EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G808B8F2E301EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970