

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

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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 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

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Rest of Middle East & Africa

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