

Embedded Computer Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global embedded computer market size reached US\$ 43.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 67.9 Billion by 2028, exhibiting a growth rate (CAGR) of 7.9% during 2022-2028.

An embedded computer is controlled by a real-time operating system (RTOS) and placed within a larger machine or equipment. It receives electronic data through sensors, which are processed by the microprocessor, and passes the information to mechanical components that operate the required task. It is commonly used in television (TV) sets, motor vehicles, telephones, digital cameras, washing machines, microwaves, and dishwashers. It is compact, cost-effective, easy to manage, improves performance, and transfers information in real-time as compared to conventionally used computers.

Embedded Computer Market Trends:

The embedded computer is used in anti-lock braking systems (ABS), cruise control, and other major components of passenger and electric vehicles (EVs). This, in confluence with the growing number of fatal road accidents and the increasing focus on improving passenger and driver safety, represents one of the major factors bolstering the market growth. In addition, the embedded computer is incorporated into medical devices to diagnose and treat several chronic conditions. This, along with the rising prevalence of chronic diseases and significant improvements in the healthcare infrastructure, is contributing to the market growth. It can also be attributed to the introduction of smart wearables, such as fitness watches, bands, and trackers, with increased battery life, multiple sport modes and health tracking functionalities. Furthermore, due to the growing environmental concerns and energy security among the masses are increasing the adoption of renewable energy around the world. Apart from this, the integration of the Internet of Things (IoT) and artificial intelligence (AI) to transmit data over a network,

solve complex problems and improve machine-to-machine (M2M) communications is offering lucrative growth opportunities to industry players.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global embedded computer market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component type and end use industry.

Breakup by Component Type:

Software

Hardware

Microprocessors

Microcontrollers

Digital Signal Processors

Others

Hardware component currently dominates the market.

Breakup by End Use Industry:

Automotive/Transportation

Industrial Automation

Information and Communication Technology

Healthcare

Utilities

Others

Embedded computers are widely utilized in information and communication technology as they help transmit data between the processor and peripheral devices.

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America holds the majority of the global embedded computer market share due to continuous technological advancements in the region.

Competitive Landscape:

The competitive landscape of the market has been analyzed in the report, along with the detailed profiles of the major players operating in the industry. Some of these players are Advantech Co., Ltd., Arm Limited, Fujitsu Limited, Intel Corporation, International Business Machines Corporation, Microchip Technology Inc., Microsoft Corporation, Qualcomm Incorporated, Renesas Electronics Corporation, and Texas Instruments Incorporated.

Key Questions Answered in This Report

1. What was the size of the global embedded computer market in 2022?
2. What is the expected growth rate of the global embedded computer market during 2023-2028?
3. What are the key factors driving the global embedded computer market?
4. What has been the impact of COVID-19 on the global embedded computer market?
5. What is the breakup of the global embedded computer market based on the component type?
6. What is the breakup of the global embedded computer market based on the end use industry?
7. What are the key regions in the global embedded computer market?
8. Who are the key players/companies in the global embedded computer market?

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