

Global Microcontroller Market Size Study & Forecast, by Product Type (8-Bit, 16-Bit, 32-Bit), By Application (Networking & Communications, Automotive, Consumer Electronics, Industrial, Medical Devices, Military & Defense), and Regional Analysis, 2023-2030

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Abstracts

Global Microcontroller Market is valued at approximately at USD 25.76 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 10.50% over the forecast period 2023-2030. Microcontroller is a compact integrated circuit that contains a processor core, memory, and input/output peripherals on a single chip. It is designed to execute specific tasks within embedded systems, which are systems that are dedicated to performing a few specific functions rather than a wide range of tasks like general-purpose computers. Moreover, the growing trend towards automation across various industries, increasing adoption of electric vehicles, expanding consumer electronics market, and proliferation of IoT devices are anticipated to create the lucrative demand for the market during forecast period 2023-2030.

Additionally, with a rising middle-class population and increasing disposable incomes, there is a growing demand for consumer electronics products in the Asia Pacific region. Microcontrollers are essential components in devices such as smartphones, smart TVs, home appliances, and wearable devices, driving market growth. As per Statista, globally there were around 8,298.7 million pieces of consumer electronics accounted for 2022. Also, it is projected that the figure is constantly rising and is expected to reach 9,181 million pieces by the year 2027. Moreover, the increasing digitalization across industries, and rapid developments and innovations in automotive sector is anticipated to create the lucrative opportunity for the market. However, the operational failure in extreme climatic conditions, and lack of intellectual property (IP) protection rights stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Microcontroller Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the increasing demand for IoT devices, rapid technological advancements, and growing focus on smart home and automation. Whereas, the Asia Pacific region is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the rapid industrialization, strong presence of semiconductor industry, supportive government initiatives and investments, and growing demand for consumer electronics products.

Major market players included in this report are:

Texas Instruments Incorporated (U.S.)

Microchip Technology Inc. (U.S.)

Renesas Electronics Corporation (Japan)

STMicroelectronics (Switzerland)

NXP Semiconductors (Netherlands)

Infineon Technologies AG (Germany)

Maxim Integrated (Analog Devices) (U.S.)

ON Semiconductor (U.S.)

ROHM CO., LTD. (Japan)

Zilog, Inc. (U.S.)

Recent Developments in the Market:

In January 2022, Infineon Technologies AG, a prominent figure in automotive semiconductor solutions on a global scale, has recently unveiled an expansion to its AURIX™ microcontroller lineup. The company has introduced the first samples of its latest AURIX TC4x family of 28 nm microcontrollers (MCUs), aimed at powering next-generation eMobility, Advanced Driver Assistance

Systems (ADAS), automotive electrical/electronic (E/E) architectures, and cost-effective artificial intelligence (AI) applications.

Global Microcontroller 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 - Product Type, Application, 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 Product Type:

8-Bit

16-Bit

32-Bit

By Application:

Networking & Communications

Automotive

Consumer Electronics

Industrial

Medical Devices

Military & Defense

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

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