

Global MCU Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

A microcontroller (MCU for microcontroller unit) is a small computer on a single metal-oxide-semiconductor (MOS) integrated circuit chip. In modern terminology, it is similar to, but less sophisticated than, a system on a chip (SoC); a SoC may include a microcontroller as one of its components. A microcontroller contains one or more CPUs (processor cores) along with memory and programmable input/output peripherals. Program memory in the form of ferroelectric RAM, NOR flash or OTP ROM is also often included on chip, as well as a small amount of RAM. Microcontrollers are designed for embedded applications, in contrast to the microprocessors used in personal computers or other general purpose applications consisting of various discrete chips.

Microcontrollers are used in automatically controlled products and devices, such as automobile engine control systems, implantable medical devices, remote controls, office machines, appliances, power tools, toys and other embedded systems. By reducing the size and cost compared to a design that uses a separate microprocessor, memory, and input/output devices, microcontrollers make it economical to digitally control even more devices and processes. Mixed signal microcontrollers are common, integrating analog components needed to control non-digital electronic systems. In the context of the internet of things, microcontrollers are an economical and popular means of data collection, sensing and actuating the physical world as edge devices.

According to our (Global Info Research) latest study, the global MCU market size was valued at US\$ 20610 million in 2023 and is forecast to a readjusted size of USD 28300 million by 2030 with a CAGR of 4.7% during review period.

Global MCU key players include NXP Semiconductors, Microchip Technology, Renesas Electronics, STMicroelectronics, Infineon Technologies, etc. Global top five

manufacturers hold a share over 55%.

Asia-Pacific is the largest market, with a share over 50%, followed by Europe and North America, both have a share about 40%.

In terms of product, 32 Bit MCU is the largest segment, with a share over 50%. And in terms of application, the largest application is Automotive, followed by Industrial, Communication and Computer, etc.

This report is a detailed and comprehensive analysis for global MCU market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global MCU market size and forecasts, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (US\$/Pcs), 2019-2030

Global MCU market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (US\$/Pcs), 2019-2030

Global MCU market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Pcs), and average selling prices (US\$/Pcs), 2019-2030

Global MCU market shares of main players, shipments in revenue (\$ Million), sales quantity (M Pcs), and ASP (US\$/Pcs), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for MCU

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global MCU market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NXP Semiconductors, Microchip Technology, Renesas Electronics, STMicroelectronics, Infineon Technologies, Texas Instruments, Cypress Semiconductor, Silicon Laboratories, Nuvoton, Toshiba, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

MCU 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4 Bit MCU

8 Bit MCU

16 Bit MCU

32 Bit MCU

Market segment by Application

Automotive

Industrial

Communication and Computer

Consumer Electronics

Others

Major players covered

NXP Semiconductors

Microchip Technology

Renesas Electronics

STMicroelectronics

Infineon Technologies

Texas Instruments

Cypress Semiconductor

Silicon Laboratories

Nuvoton

Toshiba

Holtek Semiconductor

Sino Wealth Electronic

GigaDevice

Sonix Technology

Qingdao Eastsoft

Shanghai Sinomcu

Shenzhen Chipsea

Shanghai MindMotion

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 MCU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MCU, with price, sales quantity, revenue, and global market share of MCU from 2019 to 2024.

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

Chapter 4, the MCU 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 by Application, with sales market share and growth rate by Type, by 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 2019 to 2024. and MCU market forecast, by regions, by Type, and by 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 MCU.

Chapter 14 and 15, to describe MCU sales channel, distributors, customers, research findings and conclusion.

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