

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

<https://marketpublishers.com/r/G93E863C2BD3EN.html>

Date: May 2024

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: G93E863C2BD3EN

Abstracts

According to our (Global Info Research) latest study, the global IoT Microcontrollers market size was valued at USD 3561.2 million in 2023 and is forecast to a readjusted size of USD 4692.4 million by 2030 with a CAGR of 4.0% during review period.

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. At present, microcontroller is employed substantially across many automated Internet of Things products and devices such as power tools, remote controls, office machines, automobile engine controls, and medical devices.

According to our research, the number of global connected IoT devices was about 14 billion, grew by 18% compared to 2021. The data released by the Office of the Central Cyberspace Affairs Commission shows that, by the end of 2022, China has built and opened a total of 2.3 million 5G base stations. 110 cities across the country have reached the gigabit city construction standards. Gigabit optical network has the ability to cover more than 500 million households. IPv6 scale deployment application is deeply promoted. The number of active users exceeds 700 million, mobile network IPv6 traffic accounted for nearly 50%. The total size of China's data center racks exceeds 6.5

million standard racks, with an average annual growth rate of more than 30% in the past five years.

The Global Info Research report includes an overview of the development of the IoT Microcontrollers industry chain, the market status of Consumer Electronics (8-Bit Microcontrollers, 16-Bit Microcontrollers), Industrial Automation (8-Bit Microcontrollers, 16-Bit Microcontrollers), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IoT Microcontrollers.

Regionally, the report analyzes the IoT Microcontrollers markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global IoT Microcontrollers market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the IoT Microcontrollers market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the IoT Microcontrollers industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., 8-Bit Microcontrollers, 16-Bit Microcontrollers).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the IoT Microcontrollers market.

Regional Analysis: The report involves examining the IoT Microcontrollers market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the IoT Microcontrollers market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to IoT Microcontrollers:

Company Analysis: Report covers individual IoT Microcontrollers manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards IoT Microcontrollers. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Industrial Automation).

Technology Analysis: Report covers specific technologies relevant to IoT Microcontrollers. It assesses the current state, advancements, and potential future developments in IoT Microcontrollers areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the IoT Microcontrollers market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

IoT Microcontrollers 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.

Market segment by Type

8-Bit Microcontrollers

16-Bit Microcontrollers

32-Bit Microcontrollers

Others

Market segment by Application

Consumer Electronics

Industrial Automation

Smart Grids

Automotive

Healthcare

Major players covered

ARM

Texas Instruments

Intel Corporation

Qualcomm

Atmel Corporation

Freescale Semiconductor

Marvell

Microchip Technology

Broadcom Corporation

Silicon Laboratories

STMicroelectronics

Holtek Semiconductor

Infineon Technologies

NXP Semiconductors

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 IoT Microcontrollers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the IoT Microcontrollers 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 application, with sales market share and growth rate by type, 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 2017 to 2023. and IoT Microcontrollers market forecast, by regions, type and 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 IoT Microcontrollers.

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

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