

Global IoT Microcontroller (MCU) Market Growth 2025-2031

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Abstracts

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The global IoT Microcontroller (MCU) market size is predicted to grow from US\$ 4613 million in 2025 to US\$ 8971 million in 2031; it is expected to grow at a CAGR of 11.7% from 2025 to 2031.

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.

The IoT (Internet of Things) Microcontroller (MCU) market is rapidly evolving, driven by the increasing need for connected devices across a wide range of industries, from consumer electronics to industrial automation and healthcare. MCUs are integral to IoT devices, as they control, process data, and manage communication between various sensors and actuators. The market for IoT MCUs has experienced significant growth due to several trends in technology and consumer demand.

The number of connected devices is expected to grow exponentially, from billions today to potentially trillions in the coming years. This growth is pushing the demand for low-cost, energy-efficient, and high-performance MCUs that can handle the processing and communication needs of IoT devices.

IoT MCUs are increasingly being developed to support multiple connectivity standards, including Wi-Fi, Bluetooth Low Energy (BLE), Zigbee, LoRa, NB-IoT, and 5G. This adaptability allows IoT devices to seamlessly connect to various networks and communication platforms, driving demand for advanced MCUs that can handle diverse protocols.

One of the key trends in the IoT MCU market is the development of ultra-low-power MCUs. As many IoT devices run on battery power or energy-harvesting technologies, reducing power consumption is crucial. Manufacturers are focusing on developing MCUs with low sleep modes, low operating voltages, and optimized energy profiles to extend the lifespan of IoT devices, especially in remote or difficult-to-access applications.

IoT MCUs are being integrated with energy harvesting technologies (e.g., solar, vibration, or thermal energy) to power sensors and devices without the need for batteries, reducing maintenance costs and improving sustainability.

IoT devices are increasingly adopting edge computing capabilities, where data is processed locally on the device (or at the 'edge' of the network) rather than being sent to a central cloud server. This reduces latency, bandwidth consumption, and the need for constant cloud communication. MCUs with higher processing power and embedded machine learning (ML) capabilities are in demand for local data processing and decision-making.

The demand for real-time data processing is increasing in applications like industrial automation, healthcare, and smart cities. MCUs that can handle high-speed data acquisition, sensor fusion, and real-time analysis are critical to these applications.

LP Information, Inc. (LPI) ' newest research report, the "IoT Microcontroller (MCU) Industry Forecast" looks at past sales and reviews total world IoT Microcontroller (MCU) sales in 2024, providing a comprehensive analysis by region and market sector of projected IoT Microcontroller (MCU) sales for 2025 through 2031. With IoT Microcontroller (MCU) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world IoT Microcontroller

(MCU) industry.

This Insight Report provides a comprehensive analysis of the global IoT Microcontroller (MCU) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on IoT Microcontroller (MCU) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global IoT Microcontroller (MCU) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for IoT Microcontroller (MCU) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global IoT Microcontroller (MCU).

This report presents a comprehensive overview, market shares, and growth opportunities of IoT Microcontroller (MCU) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

8 bit MCU

16 bit MCU

32 bit MCU

Segmentation by Application:

Consumer Electronics

Automotive

Healthcare

Industrial

Smart Homes

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NXP Semiconductors

Microchip Technology

Renesas Electronics

Silicon Laboratories

STMicroelectronics

Infineon Technologies

Texas Instruments

Maxim Integrated (Analog Devices)

Nuvoton

GigaDevice

Qingdao Eastsoft

Key Questions Addressed in this Report

What is the 10-year outlook for the global IoT Microcontroller (MCU) market?

What factors are driving IoT Microcontroller (MCU) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do IoT Microcontroller (MCU) market opportunities vary by end market size?

How does IoT Microcontroller (MCU) break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global IoT Microcontroller (MCU) Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for IoT Microcontroller (MCU) by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for IoT Microcontroller (MCU) by Country/Region, 2020, 2024 & 2031
- 2.2 IoT Microcontroller (MCU) Segment by Type
 - 2.2.1 8 bit MCU
 - 2.2.2 16 bit MCU
 - 2.2.3 32 bit MCU
- 2.3 IoT Microcontroller (MCU) Sales by Type
 - 2.3.1 Global IoT Microcontroller (MCU) Sales Market Share by Type (2020-2025)
 - 2.3.2 Global IoT Microcontroller (MCU) Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global IoT Microcontroller (MCU) Sale Price by Type (2020-2025)
- 2.4 IoT Microcontroller (MCU) Segment by Application
 - 2.4.1 Consumer Electronics
 - 2.4.2 Automotive
 - 2.4.3 Healthcare
 - 2.4.4 Industrial
 - 2.4.5 Smart Homes
 - 2.4.6 Others
- 2.5 IoT Microcontroller (MCU) Sales by Application
 - 2.5.1 Global IoT Microcontroller (MCU) Sale Market Share by Application (2020-2025)

2.5.2 Global IoT Microcontroller (MCU) Revenue and Market Share by Application (2020-2025)

2.5.3 Global IoT Microcontroller (MCU) Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global IoT Microcontroller (MCU) Breakdown Data by Company

3.1.1 Global IoT Microcontroller (MCU) Annual Sales by Company (2020-2025)

3.1.2 Global IoT Microcontroller (MCU) Sales Market Share by Company (2020-2025)

3.2 Global IoT Microcontroller (MCU) Annual Revenue by Company (2020-2025)

3.2.1 Global IoT Microcontroller (MCU) Revenue by Company (2020-2025)

3.2.2 Global IoT Microcontroller (MCU) Revenue Market Share by Company (2020-2025)

3.3 Global IoT Microcontroller (MCU) Sale Price by Company

3.4 Key Manufacturers IoT Microcontroller (MCU) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers IoT Microcontroller (MCU) Product Location Distribution

3.4.2 Players IoT Microcontroller (MCU) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR IOT MICROCONTROLLER (MCU) BY GEOGRAPHIC REGION

4.1 World Historic IoT Microcontroller (MCU) Market Size by Geographic Region (2020-2025)

4.1.1 Global IoT Microcontroller (MCU) Annual Sales by Geographic Region (2020-2025)

4.1.2 Global IoT Microcontroller (MCU) Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic IoT Microcontroller (MCU) Market Size by Country/Region (2020-2025)

4.2.1 Global IoT Microcontroller (MCU) Annual Sales by Country/Region (2020-2025)

4.2.2 Global IoT Microcontroller (MCU) Annual Revenue by Country/Region (2020-2025)

4.3 Americas IoT Microcontroller (MCU) Sales Growth

4.4 APAC IoT Microcontroller (MCU) Sales Growth

4.5 Europe IoT Microcontroller (MCU) Sales Growth

4.6 Middle East & Africa IoT Microcontroller (MCU) Sales Growth

5 AMERICAS

5.1 Americas IoT Microcontroller (MCU) Sales by Country

5.1.1 Americas IoT Microcontroller (MCU) Sales by Country (2020-2025)

5.1.2 Americas IoT Microcontroller (MCU) Revenue by Country (2020-2025)

5.2 Americas IoT Microcontroller (MCU) Sales by Type (2020-2025)

5.3 Americas IoT Microcontroller (MCU) Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC IoT Microcontroller (MCU) Sales by Region

6.1.1 APAC IoT Microcontroller (MCU) Sales by Region (2020-2025)

6.1.2 APAC IoT Microcontroller (MCU) Revenue by Region (2020-2025)

6.2 APAC IoT Microcontroller (MCU) Sales by Type (2020-2025)

6.3 APAC IoT Microcontroller (MCU) Sales by Application (2020-2025)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe IoT Microcontroller (MCU) by Country

7.1.1 Europe IoT Microcontroller (MCU) Sales by Country (2020-2025)

7.1.2 Europe IoT Microcontroller (MCU) Revenue by Country (2020-2025)

7.2 Europe IoT Microcontroller (MCU) Sales by Type (2020-2025)

7.3 Europe IoT Microcontroller (MCU) Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa IoT Microcontroller (MCU) by Country

8.1.1 Middle East & Africa IoT Microcontroller (MCU) Sales by Country (2020-2025)

8.1.2 Middle East & Africa IoT Microcontroller (MCU) Revenue by Country (2020-2025)

8.2 Middle East & Africa IoT Microcontroller (MCU) Sales by Type (2020-2025)

8.3 Middle East & Africa IoT Microcontroller (MCU) Sales by Application (2020-2025)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of IoT Microcontroller (MCU)

10.3 Manufacturing Process Analysis of IoT Microcontroller (MCU)

10.4 Industry Chain Structure of IoT Microcontroller (MCU)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 IoT Microcontroller (MCU) Distributors

11.3 IoT Microcontroller (MCU) Customer

12 WORLD FORECAST REVIEW FOR IOT MICROCONTROLLER (MCU) BY GEOGRAPHIC REGION

12.1 Global IoT Microcontroller (MCU) Market Size Forecast by Region

12.1.1 Global IoT Microcontroller (MCU) Forecast by Region (2026-2031)

12.1.2 Global IoT Microcontroller (MCU) Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global IoT Microcontroller (MCU) Forecast by Type (2026-2031)

12.7 Global IoT Microcontroller (MCU) Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 NXP Semiconductors

13.1.1 NXP Semiconductors Company Information

13.1.2 NXP Semiconductors IoT Microcontroller (MCU) Product Portfolios and Specifications

13.1.3 NXP Semiconductors IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 NXP Semiconductors Main Business Overview

13.1.5 NXP Semiconductors Latest Developments

13.2 Microchip Technology

13.2.1 Microchip Technology Company Information

13.2.2 Microchip Technology IoT Microcontroller (MCU) Product Portfolios and Specifications

13.2.3 Microchip Technology IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Microchip Technology Main Business Overview

13.2.5 Microchip Technology Latest Developments

13.3 Renesas Electronics

13.3.1 Renesas Electronics Company Information

13.3.2 Renesas Electronics IoT Microcontroller (MCU) Product Portfolios and Specifications

13.3.3 Renesas Electronics IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Renesas Electronics Main Business Overview

- 13.3.5 Renesas Electronics Latest Developments
- 13.4 Silicon Laboratories
 - 13.4.1 Silicon Laboratories Company Information
 - 13.4.2 Silicon Laboratories IoT Microcontroller (MCU) Product Portfolios and Specifications
 - 13.4.3 Silicon Laboratories IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.4.4 Silicon Laboratories Main Business Overview
 - 13.4.5 Silicon Laboratories Latest Developments
- 13.5 STMicroelectronics
 - 13.5.1 STMicroelectronics Company Information
 - 13.5.2 STMicroelectronics IoT Microcontroller (MCU) Product Portfolios and Specifications
 - 13.5.3 STMicroelectronics IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 STMicroelectronics Main Business Overview
 - 13.5.5 STMicroelectronics Latest Developments
- 13.6 Infineon Technologies
 - 13.6.1 Infineon Technologies Company Information
 - 13.6.2 Infineon Technologies IoT Microcontroller (MCU) Product Portfolios and Specifications
 - 13.6.3 Infineon Technologies IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Infineon Technologies Main Business Overview
 - 13.6.5 Infineon Technologies Latest Developments
- 13.7 Texas Instruments
 - 13.7.1 Texas Instruments Company Information
 - 13.7.2 Texas Instruments IoT Microcontroller (MCU) Product Portfolios and Specifications
 - 13.7.3 Texas Instruments IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Texas Instruments Main Business Overview
 - 13.7.5 Texas Instruments Latest Developments
- 13.8 Maxim Integrated (Analog Devices)
 - 13.8.1 Maxim Integrated (Analog Devices) Company Information
 - 13.8.2 Maxim Integrated (Analog Devices) IoT Microcontroller (MCU) Product Portfolios and Specifications
 - 13.8.3 Maxim Integrated (Analog Devices) IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Maxim Integrated (Analog Devices) Main Business Overview

13.8.5 Maxim Integrated (Analog Devices) Latest Developments

13.9 Nuvoton

13.9.1 Nuvoton Company Information

13.9.2 Nuvoton IoT Microcontroller (MCU) Product Portfolios and Specifications

13.9.3 Nuvoton IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Nuvoton Main Business Overview

13.9.5 Nuvoton Latest Developments

13.10 GigaDevice

13.10.1 GigaDevice Company Information

13.10.2 GigaDevice IoT Microcontroller (MCU) Product Portfolios and Specifications

13.10.3 GigaDevice IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 GigaDevice Main Business Overview

13.10.5 GigaDevice Latest Developments

13.11 Qingdao Eastsoft

13.11.1 Qingdao Eastsoft Company Information

13.11.2 Qingdao Eastsoft IoT Microcontroller (MCU) Product Portfolios and Specifications

13.11.3 Qingdao Eastsoft IoT Microcontroller (MCU) Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Qingdao Eastsoft Main Business Overview

13.11.5 Qingdao Eastsoft Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. IoT Microcontroller (MCU) Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. IoT Microcontroller (MCU) Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of 8 bit MCU

Table 4. Major Players of 16 bit MCU

Table 5. Major Players of 32 bit MCU

Table 6. Global IoT Microcontroller (MCU) Sales by Type (2020-2025) & (M Units)

Table 7. Global IoT Microcontroller (MCU) Sales Market Share by Type (2020-2025)

Table 8. Global IoT Microcontroller (MCU) Revenue by Type (2020-2025) & (\$ million)

Table 9. Global IoT Microcontroller (MCU) Revenue Market Share by Type (2020-2025)

Table 10. Global IoT Microcontroller (MCU) Sale Price by Type (2020-2025) & (US\$/Unit)

Table 11. Global IoT Microcontroller (MCU) Sale by Application (2020-2025) & (M Units)

Table 12. Global IoT Microcontroller (MCU) Sale Market Share by Application (2020-2025)

Table 13. Global IoT Microcontroller (MCU) Revenue by Application (2020-2025) & (\$ million)

Table 14. Global IoT Microcontroller (MCU) Revenue Market Share by Application (2020-2025)

Table 15. Global IoT Microcontroller (MCU) Sale Price by Application (2020-2025) & (US\$/Unit)

Table 16. Global IoT Microcontroller (MCU) Sales by Company (2020-2025) & (M Units)

Table 17. Global IoT Microcontroller (MCU) Sales Market Share by Company (2020-2025)

Table 18. Global IoT Microcontroller (MCU) Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global IoT Microcontroller (MCU) Revenue Market Share by Company (2020-2025)

Table 20. Global IoT Microcontroller (MCU) Sale Price by Company (2020-2025) & (US\$/Unit)

Table 21. Key Manufacturers IoT Microcontroller (MCU) Producing Area Distribution and Sales Area

Table 22. Players IoT Microcontroller (MCU) Products Offered

Table 23. IoT Microcontroller (MCU) Concentration Ratio (CR3, CR5 and CR10) &

(2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global IoT Microcontroller (MCU) Sales by Geographic Region (2020-2025) & (M Units)

Table 27. Global IoT Microcontroller (MCU) Sales Market Share Geographic Region (2020-2025)

Table 28. Global IoT Microcontroller (MCU) Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global IoT Microcontroller (MCU) Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global IoT Microcontroller (MCU) Sales by Country/Region (2020-2025) & (M Units)

Table 31. Global IoT Microcontroller (MCU) Sales Market Share by Country/Region (2020-2025)

Table 32. Global IoT Microcontroller (MCU) Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global IoT Microcontroller (MCU) Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas IoT Microcontroller (MCU) Sales by Country (2020-2025) & (M Units)

Table 35. Americas IoT Microcontroller (MCU) Sales Market Share by Country (2020-2025)

Table 36. Americas IoT Microcontroller (MCU) Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas IoT Microcontroller (MCU) Sales by Type (2020-2025) & (M Units)

Table 38. Americas IoT Microcontroller (MCU) Sales by Application (2020-2025) & (M Units)

Table 39. APAC IoT Microcontroller (MCU) Sales by Region (2020-2025) & (M Units)

Table 40. APAC IoT Microcontroller (MCU) Sales Market Share by Region (2020-2025)

Table 41. APAC IoT Microcontroller (MCU) Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC IoT Microcontroller (MCU) Sales by Type (2020-2025) & (M Units)

Table 43. APAC IoT Microcontroller (MCU) Sales by Application (2020-2025) & (M Units)

Table 44. Europe IoT Microcontroller (MCU) Sales by Country (2020-2025) & (M Units)

Table 45. Europe IoT Microcontroller (MCU) Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe IoT Microcontroller (MCU) Sales by Type (2020-2025) & (M Units)

Table 47. Europe IoT Microcontroller (MCU) Sales by Application (2020-2025) & (M Units)

Table 48. Middle East & Africa IoT Microcontroller (MCU) Sales by Country (2020-2025) & (M Units)

Table 49. Middle East & Africa IoT Microcontroller (MCU) Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa IoT Microcontroller (MCU) Sales by Type (2020-2025) & (M Units)

Table 51. Middle East & Africa IoT Microcontroller (MCU) Sales by Application (2020-2025) & (M Units)

Table 52. Key Market Drivers & Growth Opportunities of IoT Microcontroller (MCU)

Table 53. Key Market Challenges & Risks of IoT Microcontroller (MCU)

Table 54. Key Industry Trends of IoT Microcontroller (MCU)

Table 55. IoT Microcontroller (MCU) Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. IoT Microcontroller (MCU) Distributors List

Table 58. IoT Microcontroller (MCU) Customer List

Table 59. Global IoT Microcontroller (MCU) Sales Forecast by Region (2026-2031) & (M Units)

Table 60. Global IoT Microcontroller (MCU) Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas IoT Microcontroller (MCU) Sales Forecast by Country (2026-2031) & (M Units)

Table 62. Americas IoT Microcontroller (MCU) Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC IoT Microcontroller (MCU) Sales Forecast by Region (2026-2031) & (M Units)

Table 64. APAC IoT Microcontroller (MCU) Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe IoT Microcontroller (MCU) Sales Forecast by Country (2026-2031) & (M Units)

Table 66. Europe IoT Microcontroller (MCU) Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa IoT Microcontroller (MCU) Sales Forecast by Country (2026-2031) & (M Units)

Table 68. Middle East & Africa IoT Microcontroller (MCU) Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global IoT Microcontroller (MCU) Sales Forecast by Type (2026-2031) & (M Units)

Table 70. Global IoT Microcontroller (MCU) Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global IoT Microcontroller (MCU) Sales Forecast by Application (2026-2031) & (M Units)

Table 72. Global IoT Microcontroller (MCU) Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. NXP Semiconductors Basic Information, IoT Microcontroller (MCU) Manufacturing Base, Sales Area and Its Competitors

Table 74. NXP Semiconductors IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 75. NXP Semiconductors IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 76. NXP Semiconductors Main Business

Table 77. NXP Semiconductors Latest Developments

Table 78. Microchip Technology Basic Information, IoT Microcontroller (MCU) Manufacturing Base, Sales Area and Its Competitors

Table 79. Microchip Technology IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 80. Microchip Technology IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 81. Microchip Technology Main Business

Table 82. Microchip Technology Latest Developments

Table 83. Renesas Electronics Basic Information, IoT Microcontroller (MCU) Manufacturing Base, Sales Area and Its Competitors

Table 84. Renesas Electronics IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 85. Renesas Electronics IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 86. Renesas Electronics Main Business

Table 87. Renesas Electronics Latest Developments

Table 88. Silicon Laboratories Basic Information, IoT Microcontroller (MCU) Manufacturing Base, Sales Area and Its Competitors

Table 89. Silicon Laboratories IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 90. Silicon Laboratories IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 91. Silicon Laboratories Main Business

Table 92. Silicon Laboratories Latest Developments

Table 93. STMicroelectronics Basic Information, IoT Microcontroller (MCU)

Manufacturing Base, Sales Area and Its Competitors

Table 94. STMicroelectronics IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 95. STMicroelectronics IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 96. STMicroelectronics Main Business

Table 97. STMicroelectronics Latest Developments

Table 98. Infineon Technologies Basic Information, IoT Microcontroller (MCU) Manufacturing Base, Sales Area and Its Competitors

Table 99. Infineon Technologies IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 100. Infineon Technologies IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 101. Infineon Technologies Main Business

Table 102. Infineon Technologies Latest Developments

Table 103. Texas Instruments Basic Information, IoT Microcontroller (MCU)

Manufacturing Base, Sales Area and Its Competitors

Table 104. Texas Instruments IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 105. Texas Instruments IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 106. Texas Instruments Main Business

Table 107. Texas Instruments Latest Developments

Table 108. Maxim Integrated (Analog Devices) Basic Information, IoT Microcontroller (MCU) Manufacturing Base, Sales Area and Its Competitors

Table 109. Maxim Integrated (Analog Devices) IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 110. Maxim Integrated (Analog Devices) IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 111. Maxim Integrated (Analog Devices) Main Business

Table 112. Maxim Integrated (Analog Devices) Latest Developments

Table 113. Nuvoton Basic Information, IoT Microcontroller (MCU) Manufacturing Base, Sales Area and Its Competitors

Table 114. Nuvoton IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 115. Nuvoton IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 116. Nuvoton Main Business

Table 117. Nuvoton Latest Developments

Table 118. GigaDevice Basic Information, IoT Microcontroller (MCU) Manufacturing

Base, Sales Area and Its Competitors

Table 119. GigaDevice IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 120. GigaDevice IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 121. GigaDevice Main Business

Table 122. GigaDevice Latest Developments

Table 123. Qingdao Eastsoft Basic Information, IoT Microcontroller (MCU)

Manufacturing Base, Sales Area and Its Competitors

Table 124. Qingdao Eastsoft IoT Microcontroller (MCU) Product Portfolios and Specifications

Table 125. Qingdao Eastsoft IoT Microcontroller (MCU) Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 126. Qingdao Eastsoft Main Business

Table 127. Qingdao Eastsoft Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of IoT Microcontroller (MCU)
- Figure 2. IoT Microcontroller (MCU) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global IoT Microcontroller (MCU) Sales Growth Rate 2020-2031 (M Units)
- Figure 7. Global IoT Microcontroller (MCU) Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. IoT Microcontroller (MCU) Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. IoT Microcontroller (MCU) Sales Market Share by Country/Region (2024)
- Figure 10. IoT Microcontroller (MCU) Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of 8 bit MCU
- Figure 12. Product Picture of 16 bit MCU
- Figure 13. Product Picture of 32 bit MCU
- Figure 14. Global IoT Microcontroller (MCU) Sales Market Share by Type in 2025
- Figure 15. Global IoT Microcontroller (MCU) Revenue Market Share by Type (2020-2025)
- Figure 16. IoT Microcontroller (MCU) Consumed in Consumer Electronics
- Figure 17. Global IoT Microcontroller (MCU) Market: Consumer Electronics (2020-2025) & (M Units)
- Figure 18. IoT Microcontroller (MCU) Consumed in Automotive
- Figure 19. Global IoT Microcontroller (MCU) Market: Automotive (2020-2025) & (M Units)
- Figure 20. IoT Microcontroller (MCU) Consumed in Healthcare
- Figure 21. Global IoT Microcontroller (MCU) Market: Healthcare (2020-2025) & (M Units)
- Figure 22. IoT Microcontroller (MCU) Consumed in Industrial
- Figure 23. Global IoT Microcontroller (MCU) Market: Industrial (2020-2025) & (M Units)
- Figure 24. IoT Microcontroller (MCU) Consumed in Smart Homes
- Figure 25. Global IoT Microcontroller (MCU) Market: Smart Homes (2020-2025) & (M Units)
- Figure 26. IoT Microcontroller (MCU) Consumed in Others
- Figure 27. Global IoT Microcontroller (MCU) Market: Others (2020-2025) & (M Units)

Figure 28. Global IoT Microcontroller (MCU) Sale Market Share by Application (2024)

Figure 29. Global IoT Microcontroller (MCU) Revenue Market Share by Application in 2025

Figure 30. IoT Microcontroller (MCU) Sales by Company in 2025 (M Units)

Figure 31. Global IoT Microcontroller (MCU) Sales Market Share by Company in 2025

Figure 32. IoT Microcontroller (MCU) Revenue by Company in 2025 (\$ millions)

Figure 33. Global IoT Microcontroller (MCU) Revenue Market Share by Company in 2025

Figure 34. Global IoT Microcontroller (MCU) Sales Market Share by Geographic Region (2020-2025)

Figure 35. Global IoT Microcontroller (MCU) Revenue Market Share by Geographic Region in 2025

Figure 36. Americas IoT Microcontroller (MCU) Sales 2020-2025 (M Units)

Figure 37. Americas IoT Microcontroller (MCU) Revenue 2020-2025 (\$ millions)

Figure 38. APAC IoT Microcontroller (MCU) Sales 2020-2025 (M Units)

Figure 39. APAC IoT Microcontroller (MCU) Revenue 2020-2025 (\$ millions)

Figure 40. Europe IoT Microcontroller (MCU) Sales 2020-2025 (M Units)

Figure 41. Europe IoT Microcontroller (MCU) Revenue 2020-2025 (\$ millions)

Figure 42. Middle East & Africa IoT Microcontroller (MCU) Sales 2020-2025 (M Units)

Figure 43. Middle East & Africa IoT Microcontroller (MCU) Revenue 2020-2025 (\$ millions)

Figure 44. Americas IoT Microcontroller (MCU) Sales Market Share by Country in 2025

Figure 45. Americas IoT Microcontroller (MCU) Revenue Market Share by Country (2020-2025)

Figure 46. Americas IoT Microcontroller (MCU) Sales Market Share by Type (2020-2025)

Figure 47. Americas IoT Microcontroller (MCU) Sales Market Share by Application (2020-2025)

Figure 48. United States IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 49. Canada IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 50. Mexico IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 51. Brazil IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 52. APAC IoT Microcontroller (MCU) Sales Market Share by Region in 2025

Figure 53. APAC IoT Microcontroller (MCU) Revenue Market Share by Region (2020-2025)

Figure 54. APAC IoT Microcontroller (MCU) Sales Market Share by Type (2020-2025)

Figure 55. APAC IoT Microcontroller (MCU) Sales Market Share by Application (2020-2025)

Figure 56. China IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 57. Japan IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 58. South Korea IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 59. Southeast Asia IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 60. India IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 61. Australia IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 62. China Taiwan IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 63. Europe IoT Microcontroller (MCU) Sales Market Share by Country in 2025

Figure 64. Europe IoT Microcontroller (MCU) Revenue Market Share by Country (2020-2025)

Figure 65. Europe IoT Microcontroller (MCU) Sales Market Share by Type (2020-2025)

Figure 66. Europe IoT Microcontroller (MCU) Sales Market Share by Application (2020-2025)

Figure 67. Germany IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 68. France IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 69. UK IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 70. Italy IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 71. Russia IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 72. Middle East & Africa IoT Microcontroller (MCU) Sales Market Share by Country (2020-2025)

Figure 73. Middle East & Africa IoT Microcontroller (MCU) Sales Market Share by Type (2020-2025)

Figure 74. Middle East & Africa IoT Microcontroller (MCU) Sales Market Share by Application (2020-2025)

Figure 75. Egypt IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 76. South Africa IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 77. Israel IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 78. Turkey IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 79. GCC Countries IoT Microcontroller (MCU) Revenue Growth 2020-2025 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of IoT Microcontroller (MCU) in 2025

Figure 81. Manufacturing Process Analysis of IoT Microcontroller (MCU)

Figure 82. Industry Chain Structure of IoT Microcontroller (MCU)

Figure 83. Channels of Distribution

Figure 84. Global IoT Microcontroller (MCU) Sales Market Forecast by Region

(2026-2031)

Figure 85. Global IoT Microcontroller (MCU) Revenue Market Share Forecast by Region (2026-2031)

Figure 86. Global IoT Microcontroller (MCU) Sales Market Share Forecast by Type (2026-2031)

Figure 87. Global IoT Microcontroller (MCU) Revenue Market Share Forecast by Type (2026-2031)

Figure 88. Global IoT Microcontroller (MCU) Sales Market Share Forecast by Application (2026-2031)

Figure 89. Global IoT Microcontroller (MCU) Revenue Market Share Forecast by Application (2026-2031)

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