

Global IoT MCU Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IoT MCU market size is expected to reach \$ 10157 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

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.

In 2025, global IoT MCU sales volume reached 8.2 billion units, with average price of 0.64 US\$ per unit.

32-bit MCUs are becoming the mainstream architecture for IoT devices. Traditional 8-bit and 16-bit MCUs are still used in low-cost sensors and simple control devices, but most new IoT designs are moving toward 32-bit MCUs because they can support richer firmware, RTOS, wireless protocol stacks, encryption, OTA updates, and edge data processing. This trend is especially strong in smart home, industrial IoT, medical devices, wearables, and connected appliances.

Wireless-integrated MCUs are growing faster than standalone MCUs. IoT product designers increasingly prefer MCUs with integrated Wi-Fi, Bluetooth Low Energy, Zigbee, Thread, Sub-GHz, or multi-protocol radios because they reduce board size, simplify certification, and shorten product development time. The rise of Matter as a unifying IP-based smart-home protocol is also pushing demand for MCUs that support secure connectivity across multiple ecosystems.

Low power consumption remains one of the most important competitive factors. Many IoT devices are battery-powered or energy-harvesting, so MCU suppliers are competing on ultra-low sleep current, fast wake-up, low-voltage operation, integrated power management, and efficient sensor processing. This is especially important for smart meters, asset trackers, environmental sensors, wearables, medical patches, and wireless sensor nodes.

Edge AI is becoming a major product differentiation direction. IoT MCUs are increasingly expected to perform local inference for voice wake-up, vibration analysis, image recognition, gesture detection, anomaly detection, and predictive maintenance. New MCU families are starting to include neural processing units or AI accelerators; for example, ST's STM32N6 integrates an NPU for power-efficient edge AI applications such as computer vision and audio inference.

Security is shifting from an optional feature to a mandatory requirement. IoT MCUs increasingly need hardware root of trust, secure boot, cryptographic accelerators, secure key storage, trusted execution, tamper resistance, and secure firmware update support. Regulation is reinforcing this trend: the EU Cyber Resilience Act introduces mandatory cybersecurity requirements across the design, development, production, and maintenance lifecycle of connected products.

RISC-V is becoming a stronger alternative architecture in IoT MCUs. Arm Cortex-M remains dominant in 32-bit MCUs, but RISC-V adoption is rising because it allows more customizable, royalty-flexible, and application-specific MCU designs. RISC-V International notes that adoption is expanding beyond traditional low-power use cases into AI computing and broader vertical applications, which supports its growing role in IoT, industrial control, and edge AI devices.

Industrial IoT and automotive IoT are pushing MCUs toward higher reliability. Compared with consumer IoT, industrial and automotive applications require wider temperature ranges, longer lifecycle supply, functional safety, stronger EMC performance, real-time control, and industrial communication interfaces. This is driving demand for more robust

MCU platforms used in motor control, factory sensors, building automation, energy systems, battery management, telematics, and connected vehicle electronics.

Software ecosystem is becoming as important as chip hardware. IoT MCU competition is no longer only about clock speed, flash size, or power consumption. Developers increasingly evaluate SDK quality, RTOS support, cloud connectivity libraries, AI model deployment tools, security middleware, reference designs, and OTA update frameworks. Arm's Embedded World 2025 summary also highlights the importance of software tools and ecosystem enablement in bringing edge AI to IoT and automotive applications.

This report studies the global IoT MCU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IoT MCU and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of IoT MCU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IoT MCU total production and demand, 2021-2032, (K Units)

Global IoT MCU total production value, 2021-2032, (USD Million)

Global IoT MCU production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global IoT MCU consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: IoT MCU domestic production, consumption, key domestic manufacturers and share

Global IoT MCU production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global IoT MCU production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global IoT MCU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global IoT MCU market based on the following parameters - company overview, production, value, 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, Silicon Laboratories, STMicroelectronics, Infineon Technologies, Texas Instruments, Maxim Integrated (Analog Devices), Nuvoton, GigaDevice, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IoT MCU market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global IoT MCU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IoT MCU Market, Segmentation by Type:

8 bit MCU

16 bit MCU

32 bit MCU

Global IoT MCU Market, Segmentation by Technology:

Standard MCU

Low-power MCU

Ultra-low-power MCU

Global IoT MCU Market, Segmentation by Product:

General-purpose MCU

Wireless MCU

Secure MCU

Global IoT MCU Market, Segmentation by Application:

Consumer Electronics

Automotive

Healthcare

Industrial

Smart Homes

Others

Companies Profiled:

NXP Semiconductors

Microchip Technology

Renesas Electronics

Silicon Laboratories

STMicroelectronics

Infineon Technologies

Texas Instruments

Maxim Integrated (Analog Devices)

Nuvoton

GigaDevice

Qingdao Eastsoft

Key Questions Answered:

1. How big is the global IoT MCU market?
2. What is the demand of the global IoT MCU market?
3. What is the year over year growth of the global IoT MCU market?
4. What is the production and production value of the global IoT MCU market?
5. Who are the key producers in the global IoT MCU market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 IoT MCU Introduction
- 1.2 World IoT MCU Supply & Forecast
 - 1.2.1 World IoT MCU Production Value (2021 & 2025 & 2032)
 - 1.2.2 World IoT MCU Production (2021-2032)
 - 1.2.3 World IoT MCU Pricing Trends (2021-2032)
- 1.3 World IoT MCU Production by Region (Based on Production Site)
 - 1.3.1 World IoT MCU Production Value by Region (2021-2032)
 - 1.3.2 World IoT MCU Production by Region (2021-2032)
 - 1.3.3 World IoT MCU Average Price by Region (2021-2032)
 - 1.3.4 North America IoT MCU Production (2021-2032)
 - 1.3.5 Europe IoT MCU Production (2021-2032)
 - 1.3.6 China IoT MCU Production (2021-2032)
 - 1.3.7 Japan IoT MCU Production (2021-2032)
 - 1.3.8 South Korea IoT MCU Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 IoT MCU Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 IoT MCU Major Market Trends

2 DEMAND SUMMARY

- 2.1 World IoT MCU Demand (2021-2032)
- 2.2 World IoT MCU Consumption by Region
 - 2.2.1 World IoT MCU Consumption by Region (2021-2026)
 - 2.2.2 World IoT MCU Consumption Forecast by Region (2027-2032)
- 2.3 United States IoT MCU Consumption (2021-2032)
- 2.4 China IoT MCU Consumption (2021-2032)
- 2.5 Europe IoT MCU Consumption (2021-2032)
- 2.6 Japan IoT MCU Consumption (2021-2032)
- 2.7 South Korea IoT MCU Consumption (2021-2032)
- 2.8 ASEAN IoT MCU Consumption (2021-2032)
- 2.9 India IoT MCU Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World IoT MCU Production Value by Manufacturer (2021-2026)

3.2 World IoT MCU Production by Manufacturer (2021-2026)

3.3 World IoT MCU Average Price by Manufacturer (2021-2026)

3.4 IoT MCU Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global IoT MCU Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for IoT MCU in 2025

3.5.3 Global Concentration Ratios (CR8) for IoT MCU in 2025

3.6 IoT MCU Market: Overall Company Footprint Analysis

3.6.1 IoT MCU Market: Region Footprint

3.6.2 IoT MCU Market: Company Product Type Footprint

3.6.3 IoT MCU Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: IoT MCU Production Value Comparison

4.1.1 United States VS China: IoT MCU Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: IoT MCU Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: IoT MCU Production Comparison

4.2.1 United States VS China: IoT MCU Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: IoT MCU Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: IoT MCU Consumption Comparison

4.3.1 United States VS China: IoT MCU Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: IoT MCU Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based IoT MCU Manufacturers and Market Share, 2021-2026

4.4.1 United States Based IoT MCU Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers IoT MCU Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers IoT MCU Production (2021-2026)
- 4.5 China Based IoT MCU Manufacturers and Market Share
 - 4.5.1 China Based IoT MCU Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers IoT MCU Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers IoT MCU Production (2021-2026)
- 4.6 Rest of World Based IoT MCU Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based IoT MCU Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers IoT MCU Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers IoT MCU Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World IoT MCU Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 8 bit MCU
 - 5.2.2 16 bit MCU
 - 5.2.3 32 bit MCU
- 5.3 Market Segment by Type
 - 5.3.1 World IoT MCU Production by Type (2021-2032)
 - 5.3.2 World IoT MCU Production Value by Type (2021-2032)
 - 5.3.3 World IoT MCU Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

- 6.1 World IoT MCU Market Size Overview by Technology: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Technology
 - 6.2.1 Standard MCU
 - 6.2.2 Low-power MCU
 - 6.2.3 Ultra-low-power MCU
- 6.3 Market Segment by Technology
 - 6.3.1 World IoT MCU Production by Technology (2021-2032)
 - 6.3.2 World IoT MCU Production Value by Technology (2021-2032)
 - 6.3.3 World IoT MCU Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY PRODUCT

- 7.1 World IoT MCU Market Size Overview by Product: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product

7.2.1 General-purpose MCU

7.2.2 Wireless MCU

7.2.3 Secure MCU

7.3 Market Segment by Product

7.3.1 World IoT MCU Production by Product (2021-2032)

7.3.2 World IoT MCU Production Value by Product (2021-2032)

7.3.3 World IoT MCU Average Price by Product (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World IoT MCU Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics

8.2.2 Automotive

8.2.3 Healthcare

8.2.4 Industrial

8.2.5 Smart Homes

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World IoT MCU Production by Application (2021-2032)

8.3.2 World IoT MCU Production Value by Application (2021-2032)

8.3.3 World IoT MCU Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 NXP Semiconductors

9.1.1 NXP Semiconductors Details

9.1.2 NXP Semiconductors Major Business

9.1.3 NXP Semiconductors IoT MCU Product and Services

9.1.4 NXP Semiconductors IoT MCU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 NXP Semiconductors Recent Developments/Updates

9.1.6 NXP Semiconductors Competitive Strengths & Weaknesses

9.2 Microchip Technology

9.2.1 Microchip Technology Details

9.2.2 Microchip Technology Major Business

9.2.3 Microchip Technology IoT MCU Product and Services

9.2.4 Microchip Technology IoT MCU Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.2.5 Microchip Technology Recent Developments/Updates

9.2.6 Microchip Technology Competitive Strengths & Weaknesses

9.3 Renesas Electronics

9.3.1 Renesas Electronics Details

9.3.2 Renesas Electronics Major Business

9.3.3 Renesas Electronics IoT MCU Product and Services

9.3.4 Renesas Electronics IoT MCU Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.3.5 Renesas Electronics Recent Developments/Updates

9.3.6 Renesas Electronics Competitive Strengths & Weaknesses

9.4 Silicon Laboratories

9.4.1 Silicon Laboratories Details

9.4.2 Silicon Laboratories Major Business

9.4.3 Silicon Laboratories IoT MCU Product and Services

9.4.4 Silicon Laboratories IoT MCU Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.4.5 Silicon Laboratories Recent Developments/Updates

9.4.6 Silicon Laboratories Competitive Strengths & Weaknesses

9.5 STMicroelectronics

9.5.1 STMicroelectronics Details

9.5.2 STMicroelectronics Major Business

9.5.3 STMicroelectronics IoT MCU Product and Services

9.5.4 STMicroelectronics IoT MCU Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.5.5 STMicroelectronics Recent Developments/Updates

9.5.6 STMicroelectronics Competitive Strengths & Weaknesses

9.6 Infineon Technologies

9.6.1 Infineon Technologies Details

9.6.2 Infineon Technologies Major Business

9.6.3 Infineon Technologies IoT MCU Product and Services

9.6.4 Infineon Technologies IoT MCU Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.6.5 Infineon Technologies Recent Developments/Updates

9.6.6 Infineon Technologies Competitive Strengths & Weaknesses

9.7 Texas Instruments

9.7.1 Texas Instruments Details

9.7.2 Texas Instruments Major Business

9.7.3 Texas Instruments IoT MCU Product and Services

9.7.4 Texas Instruments IoT MCU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Texas Instruments Recent Developments/Updates

9.7.6 Texas Instruments Competitive Strengths & Weaknesses

9.8 Maxim Integrated (Analog Devices)

9.8.1 Maxim Integrated (Analog Devices) Details

9.8.2 Maxim Integrated (Analog Devices) Major Business

9.8.3 Maxim Integrated (Analog Devices) IoT MCU Product and Services

9.8.4 Maxim Integrated (Analog Devices) IoT MCU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Maxim Integrated (Analog Devices) Recent Developments/Updates

9.8.6 Maxim Integrated (Analog Devices) Competitive Strengths & Weaknesses

9.9 Nuvoton

9.9.1 Nuvoton Details

9.9.2 Nuvoton Major Business

9.9.3 Nuvoton IoT MCU Product and Services

9.9.4 Nuvoton IoT MCU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Nuvoton Recent Developments/Updates

9.9.6 Nuvoton Competitive Strengths & Weaknesses

9.10 GigaDevice

9.10.1 GigaDevice Details

9.10.2 GigaDevice Major Business

9.10.3 GigaDevice IoT MCU Product and Services

9.10.4 GigaDevice IoT MCU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 GigaDevice Recent Developments/Updates

9.10.6 GigaDevice Competitive Strengths & Weaknesses

9.11 Qingdao Eastsoft

9.11.1 Qingdao Eastsoft Details

9.11.2 Qingdao Eastsoft Major Business

9.11.3 Qingdao Eastsoft IoT MCU Product and Services

9.11.4 Qingdao Eastsoft IoT MCU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Qingdao Eastsoft Recent Developments/Updates

9.11.6 Qingdao Eastsoft Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 IoT MCU Industry Chain
- 10.2 IoT MCU Upstream Analysis
 - 10.2.1 IoT MCU Core Raw Materials
 - 10.2.2 Main Manufacturers of IoT MCU Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 IoT MCU Production Mode
- 10.6 IoT MCU Procurement Model
- 10.7 IoT MCU Industry Sales Model and Sales Channels
 - 10.7.1 IoT MCU Sales Model
 - 10.7.2 IoT MCU Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World IoT MCU Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World IoT MCU Production Value by Region (2021-2026) & (USD Million)

Table 3. World IoT MCU Production Value by Region (2027-2032) & (USD Million)

Table 4. World IoT MCU Production Value Market Share by Region (2021-2026)

Table 5. World IoT MCU Production Value Market Share by Region (2027-2032)

Table 6. World IoT MCU Production by Region (2021-2026) & (K Units)

Table 7. World IoT MCU Production by Region (2027-2032) & (K Units)

Table 8. World IoT MCU Production Market Share by Region (2021-2026)

Table 9. World IoT MCU Production Market Share by Region (2027-2032)

Table 10. World IoT MCU Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World IoT MCU Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. IoT MCU Major Market Trends

Table 13. World IoT MCU Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World IoT MCU Consumption by Region (2021-2026) & (K Units)

Table 15. World IoT MCU Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World IoT MCU Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key IoT MCU Producers in 2025

Table 18. World IoT MCU Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key IoT MCU Producers in 2025

Table 20. World IoT MCU Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global IoT MCU Company Evaluation Quadrant

Table 22. World IoT MCU Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and IoT MCU Production Site of Key Manufacturer

Table 24. IoT MCU Market: Company Product Type Footprint

Table 25. IoT MCU Market: Company Product Application Footprint

Table 26. IoT MCU Competitive Factors

Table 27. IoT MCU New Entrant and Capacity Expansion Plans

Table 28. IoT MCU Mergers & Acquisitions Activity

Table 29. United States VS China IoT MCU Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China IoT MCU Production Comparison, (2021 & 2025 &

2032) & (K Units)

Table 31. United States VS China IoT MCU Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based IoT MCU Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers IoT MCU Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers IoT MCU Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers IoT MCU Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers IoT MCU Production Market Share (2021-2026)

Table 37. China Based IoT MCU Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers IoT MCU Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers IoT MCU Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers IoT MCU Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers IoT MCU Production Market Share (2021-2026)

Table 42. Rest of World Based IoT MCU Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers IoT MCU Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers IoT MCU Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers IoT MCU Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers IoT MCU Production Market Share (2021-2026)

Table 47. World IoT MCU Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World IoT MCU Production by Type (2021-2026) & (K Units)

Table 49. World IoT MCU Production by Type (2027-2032) & (K Units)

Table 50. World IoT MCU Production Value by Type (2021-2026) & (USD Million)

Table 51. World IoT MCU Production Value by Type (2027-2032) & (USD Million)

Table 52. World IoT MCU Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World IoT MCU Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World IoT MCU Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World IoT MCU Production by Technology (2021-2026) & (K Units)

Table 56. World IoT MCU Production by Technology (2027-2032) & (K Units)

Table 57. World IoT MCU Production Value by Technology (2021-2026) & (USD Million)

Table 58. World IoT MCU Production Value by Technology (2027-2032) & (USD Million)

Table 59. World IoT MCU Average Price by Technology (2021-2026) & (US\$/Unit)

Table 60. World IoT MCU Average Price by Technology (2027-2032) & (US\$/Unit)

Table 61. World IoT MCU Production Value by Product, (USD Million), 2021 & 2025 & 2032

Table 62. World IoT MCU Production by Product (2021-2026) & (K Units)

Table 63. World IoT MCU Production by Product (2027-2032) & (K Units)

Table 64. World IoT MCU Production Value by Product (2021-2026) & (USD Million)

Table 65. World IoT MCU Production Value by Product (2027-2032) & (USD Million)

Table 66. World IoT MCU Average Price by Product (2021-2026) & (US\$/Unit)

Table 67. World IoT MCU Average Price by Product (2027-2032) & (US\$/Unit)

Table 68. World IoT MCU Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World IoT MCU Production by Application (2021-2026) & (K Units)

Table 70. World IoT MCU Production by Application (2027-2032) & (K Units)

Table 71. World IoT MCU Production Value by Application (2021-2026) & (USD Million)

Table 72. World IoT MCU Production Value by Application (2027-2032) & (USD Million)

Table 73. World IoT MCU Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World IoT MCU Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 76. NXP Semiconductors Major Business

Table 77. NXP Semiconductors IoT MCU Product and Services

Table 78. NXP Semiconductors IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. NXP Semiconductors Recent Developments/Updates

Table 80. NXP Semiconductors Competitive Strengths & Weaknesses

Table 81. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 82. Microchip Technology Major Business

Table 83. Microchip Technology IoT MCU Product and Services

Table 84. Microchip Technology IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Microchip Technology Recent Developments/Updates

Table 86. Microchip Technology Competitive Strengths & Weaknesses
Table 87. Renesas Electronics Basic Information, Manufacturing Base and Competitors
Table 88. Renesas Electronics Major Business
Table 89. Renesas Electronics IoT MCU Product and Services
Table 90. Renesas Electronics IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Renesas Electronics Recent Developments/Updates
Table 92. Renesas Electronics Competitive Strengths & Weaknesses
Table 93. Silicon Laboratories Basic Information, Manufacturing Base and Competitors
Table 94. Silicon Laboratories Major Business
Table 95. Silicon Laboratories IoT MCU Product and Services
Table 96. Silicon Laboratories IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Silicon Laboratories Recent Developments/Updates
Table 98. Silicon Laboratories Competitive Strengths & Weaknesses
Table 99. STMicroelectronics Basic Information, Manufacturing Base and Competitors
Table 100. STMicroelectronics Major Business
Table 101. STMicroelectronics IoT MCU Product and Services
Table 102. STMicroelectronics IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. STMicroelectronics Recent Developments/Updates
Table 104. STMicroelectronics Competitive Strengths & Weaknesses
Table 105. Infineon Technologies Basic Information, Manufacturing Base and Competitors
Table 106. Infineon Technologies Major Business
Table 107. Infineon Technologies IoT MCU Product and Services
Table 108. Infineon Technologies IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Infineon Technologies Recent Developments/Updates
Table 110. Infineon Technologies Competitive Strengths & Weaknesses
Table 111. Texas Instruments Basic Information, Manufacturing Base and Competitors
Table 112. Texas Instruments Major Business
Table 113. Texas Instruments IoT MCU Product and Services
Table 114. Texas Instruments IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Texas Instruments Recent Developments/Updates
Table 116. Texas Instruments Competitive Strengths & Weaknesses
Table 117. Maxim Integrated (Analog Devices) Basic Information, Manufacturing Base and Competitors

Table 118. Maxim Integrated (Analog Devices) Major Business
Table 119. Maxim Integrated (Analog Devices) IoT MCU Product and Services
Table 120. Maxim Integrated (Analog Devices) IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Maxim Integrated (Analog Devices) Recent Developments/Updates
Table 122. Maxim Integrated (Analog Devices) Competitive Strengths & Weaknesses
Table 123. Nuvoton Basic Information, Manufacturing Base and Competitors
Table 124. Nuvoton Major Business
Table 125. Nuvoton IoT MCU Product and Services
Table 126. Nuvoton IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Nuvoton Recent Developments/Updates
Table 128. Nuvoton Competitive Strengths & Weaknesses
Table 129. GigaDevice Basic Information, Manufacturing Base and Competitors
Table 130. GigaDevice Major Business
Table 131. GigaDevice IoT MCU Product and Services
Table 132. GigaDevice IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. GigaDevice Recent Developments/Updates
Table 134. GigaDevice Competitive Strengths & Weaknesses
Table 135. Qingdao Eastsoft Basic Information, Manufacturing Base and Competitors
Table 136. Qingdao Eastsoft Major Business
Table 137. Qingdao Eastsoft IoT MCU Product and Services
Table 138. Qingdao Eastsoft IoT MCU Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Qingdao Eastsoft Recent Developments/Updates
Table 140. Qingdao Eastsoft Competitive Strengths & Weaknesses
Table 141. Global Key Players of IoT MCU Upstream (Raw Materials)
Table 142. Global IoT MCU Typical Customers
Table 143. IoT MCU Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. IoT MCU Picture

Figure 2. World IoT MCU Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World IoT MCU Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World IoT MCU Production (2021-2032) & (K Units)

Figure 5. World IoT MCU Average Price (2021-2032) & (US\$/Unit)

Figure 6. World IoT MCU Production Value Market Share by Region (2021-2032)

Figure 7. World IoT MCU Production Market Share by Region (2021-2032)

Figure 8. North America IoT MCU Production (2021-2032) & (K Units)

Figure 9. Europe IoT MCU Production (2021-2032) & (K Units)

Figure 10. China IoT MCU Production (2021-2032) & (K Units)

Figure 11. Japan IoT MCU Production (2021-2032) & (K Units)

Figure 12. South Korea IoT MCU Production (2021-2032) & (K Units)

Figure 13. IoT MCU Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World IoT MCU Consumption (2021-2032) & (K Units)

Figure 16. World IoT MCU Consumption Market Share by Region (2021-2032)

Figure 17. United States IoT MCU Consumption (2021-2032) & (K Units)

Figure 18. China IoT MCU Consumption (2021-2032) & (K Units)

Figure 19. Europe IoT MCU Consumption (2021-2032) & (K Units)

Figure 20. Japan IoT MCU Consumption (2021-2032) & (K Units)

Figure 21. South Korea IoT MCU Consumption (2021-2032) & (K Units)

Figure 22. ASEAN IoT MCU Consumption (2021-2032) & (K Units)

Figure 23. India IoT MCU Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of IoT MCU by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for IoT MCU Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for IoT MCU Markets in 2025

Figure 27. United States VS China: IoT MCU Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: IoT MCU Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: IoT MCU Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers IoT MCU Production Market Share 2025

Figure 31. China Based Manufacturers IoT MCU Production Market Share 2025

Figure 32. Rest of World Based Manufacturers IoT MCU Production Market Share 2025

Figure 33. World IoT MCU Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World IoT MCU Production Value Market Share by Type in 2025

Figure 35. 8 bit MCU

Figure 36. 16 bit MCU

Figure 37. 32 bit MCU

Figure 38. World IoT MCU Production Market Share by Type (2021-2032)

Figure 39. World IoT MCU Production Value Market Share by Type (2021-2032)

Figure 40. World IoT MCU Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World IoT MCU Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 42. World IoT MCU Production Value Market Share by Technology in 2025

Figure 43. Standard MCU

Figure 44. Low-power MCU

Figure 45. Ultra-low-power MCU

Figure 46. World IoT MCU Production Market Share by Technology (2021-2032)

Figure 47. World IoT MCU Production Value Market Share by Technology (2021-2032)

Figure 48. World IoT MCU Average Price by Technology (2021-2032) & (US\$/Unit)

Figure 49. World IoT MCU Production Value by Product, (USD Million), 2021 & 2025 & 2032

Figure 50. World IoT MCU Production Value Market Share by Product in 2025

Figure 51. General-purpose MCU

Figure 52. Wireless MCU

Figure 53. Secure MCU

Figure 54. World IoT MCU Production Market Share by Product (2021-2032)

Figure 55. World IoT MCU Production Value Market Share by Product (2021-2032)

Figure 56. World IoT MCU Average Price by Product (2021-2032) & (US\$/Unit)

Figure 57. World IoT MCU Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World IoT MCU Production Value Market Share by Application in 2025

Figure 59. Consumer Electronics

Figure 60. Automotive

Figure 61. Healthcare

Figure 62. Industrial

Figure 63. Smart Homes

Figure 64. Others

Figure 65. World IoT MCU Production Market Share by Application (2021-2032)

Figure 66. World IoT MCU Production Value Market Share by Application (2021-2032)

Figure 67. World IoT MCU Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. IoT MCU Industry Chain

Figure 69. IoT MCU Procurement Model

Figure 70. IoT MCU Sales Model

Figure 71. IoT MCU Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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