

# **Microcontroller Market Report by Product Type (8-Bit, 16-Bit, 32-Bit, 64-Bit, and Others), Architecture (8051 Architecture, AVR Architecture, PIC Architecture, ARM Architecture, and Others), Memory (Embedded Memory Microcontroller, External Memory Microcontroller), Application (Automotive, Consumer Devices, Industrial, and Others), and Region 2024-2032**

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## **Abstracts**

The global microcontroller market size reached US\$ 26.5 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 55.1 Billion by 2032, exhibiting a growth rate (CAGR) of 8.2% during 2024-2032. The increasing use of microcontrollers in healthcare equipment for monitoring, diagnostics, and treatment applications, the rising demand for energy efficiency, continuous advancements in semiconductor technology, the growing shift toward Industry 4.0, and the increasing need for automation in manufacturing processes are some of the major factors propelling the market.

A microcontroller is a compact integrated circuit designed to govern a specific operation in an embedded system. It essentially serves as the 'brain' of a device and is commonly used in a wide variety of automated products and systems, such as home appliances, automobiles, medical devices, and industrial machines. Unlike a general-purpose computer, a microcontroller performs a focused set of tasks and is optimized for low power consumption. It typically includes a processor, memory, and input/output peripheral support all on a single chip. These components work together to execute a specific set of instructions, or firmware, stored in its memory, enabling the

microcontroller to perform its designated functions.

The widespread adoption of IoT technology in smart homes, industrial settings, and automotive systems represents one of the key factors driving the growth of the market across the globe. This is further escalating the demand for microcontrollers, which serve as the control centers of these connected devices. Significant advancements in vehicle technology, particularly in electric and autonomous vehicles, are leading to an increased usage of microcontrollers for managing various subsystems like braking, steering, and navigation. The proliferation of consumer devices, such as smartphones, tablets, and wearables, which rely on microcontrollers for processing and control, thus contributing to the market growth. The Industry 4.0 revolution and the increasing automation of manufacturing processes require sophisticated control systems, thus making microcontrollers indispensable in these applications. The rising focus on renewable energy solutions and energy-efficient devices is leading to the development of microcontrollers that are optimized for low-power consumption, which is broadening their applicability, thereby facilitating the growth of the market across the globe.

#### Microcontroller Market Trends/Drivers:

##### Increasing usage of Internet of Things (IoT) devices

One of the most significant drivers in the market is the rise of IoT devices. Microcontrollers are at the core of IoT, managing the communication between the device and its external environment. Whether it's a smart home device that adjusts heating and cooling based on user preferences or a sensor in an industrial setting that monitors machine health, microcontrollers are central to these operations. The IoT market itself is growing at an unprecedented rate, with billions of connected devices coming online every year. This extensive network of IoT devices across various sectors, including healthcare, transportation, and consumer goods, is significantly boosting the demand for microcontrollers, which serve as the 'brain' behind these connected systems.

##### Significant advancements in the automotive industry

The automotive sector is undergoing a transformation, shifting towards electrification, automation, and connectivity. Microcontrollers play an essential role in these developments. They are integral components in various automotive subsystems, including anti-lock braking systems, airbags, infotainment, and advanced driver-assistance systems (ADAS). The role of microcontrollers is becoming even more critical as people are moving closer to the reality of fully autonomous vehicles. They are

becoming responsible for real-time data processing, decision-making, and control mechanisms that are likely to make autonomous driving safe and efficient.

### Rising consumer electronics

The increasing demand for consumer electronics is significantly propelling the market. This growth is attributed to the proliferation of smartphones, smart home devices, and wearable technology. Microcontrollers, as integral components of these devices, are witnessing a rise in production. Their role in enhancing the functionality and efficiency of consumer electronics cannot be understated. Market trends indicate a steady rise in microcontroller adoption, driven by consumer preferences for smarter and more interconnected devices. As consumer electronics continue to evolve, the microcontroller industry is poised for sustained growth, offering a compelling opportunity for businesses in this sector.

### Microcontroller Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global microcontroller market report, along with forecasts at the global and regional levels for 2024-2032. Our report has categorized the market based on product type, architecture, memory, and application.

### Breakup by Product Type:

- 8-Bit
- 16-Bit
- 32-Bit
- 64-Bit
- Others

### 32-Bit dominates the market

The report has provided a detailed breakup and analysis of the market based on the product type. This includes 8-bit, 16-bit, 32-bit, 64-bit, and others. According to the report, 32-bit represented the largest segment.

The demand for 32-bit microcontrollers in the market is rising, primarily fueled by several critical factors that hinge on the need for increased performance, functionality, and efficiency. The growing complexity of applications, especially in automotive, industrial automation, and IoT devices, requires microcontrollers with higher processing capabilities. 32-bit microcontrollers offer faster clock speeds and more memory, thus

making them ideal for these intricate tasks. Modern 32-bit microcontrollers are designed with advanced power management features, enabling better energy efficiency. This is particularly important for battery-powered and portable devices where power consumption needs to be minimized. 32-bit microcontrollers offer greater scalability, making them suitable for a wide range of applications. They are easily integrated into existing architecture and are upgraded to meet evolving technological requirements. The incorporation of enhanced communication protocols, better security features, and integrated sensors are more straightforward with 32-bit microcontrollers due to their advanced capabilities.

Breakup by Architecture:

- 8051 Architecture
- AVR Architecture
- PIC Architecture
- ARM Architecture
- Others

The report has provided a detailed breakup and analysis of the market based on the architecture. This includes mobile 8051 architecture, AVR architecture, PIC architecture, ARM architecture, and others.

The 8051 architecture boasts a long-standing legacy, having been introduced in the 1980s, which is establishing it as a well-understood and trusted platform. This legacy compatibility is valuable for industries that require backward compatibility for their existing systems and applications. The 8051 architecture offers a balance between performance and power efficiency, thus making it suitable for a wide range of applications. Its relatively low power consumption is particularly advantageous for battery-powered devices and IoT applications, where energy efficiency is paramount. Furthermore, the 8051 architecture's robust ecosystem of development tools, libraries, and community support contributes to its enduring popularity. This facilitates rapid prototyping and development, reducing time-to-market for manufacturers. The 8051 architecture's cost-effectiveness remains appealing to businesses seeking budget-friendly microcontroller solutions without compromising on functionality.

AVR microcontrollers are renowned for their simplicity and ease of use, which makes them an attractive choice for both beginners and experienced developers. This simplicity accelerates the learning curve, expediting development processes. AVR architecture excels in terms of power efficiency. Its low-power design is crucial for

battery-powered devices and applications requiring extended battery life, such as remote sensors and wearables. AVR microcontrollers offer a wide range of options, from low-cost, low-pin-count devices to more powerful variants, providing flexibility to cater to diverse application needs. Additionally, the extensive availability of development tools, a rich ecosystem of libraries, and a supportive community contribute to AVR's popularity. These resources simplify development and troubleshooting, reducing time and costs. Furthermore, the open-source nature of AVR architecture fosters innovation and collaboration, thus making it an appealing choice for DIY enthusiasts, startups, and educational institutions.

PIC microcontrollers are renowned for their versatility and robustness. They offer a wide range of devices with varying capabilities, making them suitable for a diverse array of applications, from simple control tasks to complex embedded systems. This versatility addresses the specific needs of different industries, driving demand. PIC microcontrollers benefit from a well-established and extensive ecosystem. This includes a comprehensive suite of development tools, libraries, and community support. Such resources streamline the development process, reduce time-to-market, and provide a sense of reliability, attracting developers and businesses alike. Furthermore, PIC architecture places a strong emphasis on power efficiency. This is particularly important in today's world, where energy-conscious design is essential for battery-powered and IoT devices. PIC microcontrollers excel in minimizing power consumption, making them a preferred choice for such applications. Additionally, the reliability and durability of PIC devices have earned them a solid reputation in critical industries like automotive and medical, further boosting demand.

ARM architecture offers a remarkable balance between performance and energy efficiency. This versatility makes ARM-based microcontrollers suitable for a broad range of applications, from energy-conscious IoT devices to high-performance computing systems. Its scalability allows manufacturers to choose the level of processing power required for their specific needs. ARM architecture benefits from a vast and well-supported ecosystem. This includes a wide array of development tools, extensive software libraries, and a strong community of developers. This robust support system accelerates product development, reduces time-to-market, and enhances the overall development experience. Furthermore, ARM architecture is recognized for its strong security features, thus making it ideal for applications demanding data protection and privacy, such as in the automotive and healthcare sectors. Moreover, ARM's widespread adoption in mobile devices and the data center industry has further solidified its presence and trustworthiness in the market.

## Breakup by Memory:

Embedded Memory Microcontroller  
External Memory Microcontroller

The report has provided a detailed breakup and analysis of the market based on memory. This includes embedded memory microcontroller and external memory microcontroller.

Embedded memory microcontrollers offer a streamlined and space-efficient solution for storing program code and data within the same chip. This integration minimizes the need for external memory components, reducing the overall system cost and board space requirements. This cost-effectiveness appeals to manufacturers and designers seeking compact and cost-efficient solutions for their products. Embedded memory microcontrollers enhance system performance. The proximity of memory to the processor reduces access times, improving data transfer rates and overall system responsiveness. This performance boost is crucial for applications requiring real-time processing and low latency, such as automotive and industrial control systems. Furthermore, embedded memory microcontrollers provide a higher level of security since the memory is often tightly integrated with the processor. This reduces the vulnerability to external attacks and unauthorized access, thus making them suitable for applications demanding robust security measures, such as IoT devices and medical equipment.

External memory microcontrollers offer the advantage of scalability. They can support a wide range of memory sizes and types, allowing manufacturers to choose the optimal memory configuration for their specific applications. This flexibility is crucial in industries where memory requirements can vary significantly. Applications that involve extensive data storage, such as multimedia devices and data loggers, often require external memory. These microcontrollers can accommodate larger storage capacities, which is essential for handling substantial data volumes. External memory microcontrollers can be cost-effective for applications that do not demand the high-speed access and low latency provided by embedded memory. They enable manufacturers to reduce the overall cost of the microcontroller and associated hardware. In cases where legacy systems or existing hardware configurations require external memory, microcontrollers with this capability remain in demand. They ensure compatibility with older systems and facilitate upgrades without significant redesign.

## Breakup by Application:

Automotive  
Powertrain and Chassis  
Body Electronics  
Safety and Security Systems  
Infotainment and Telematics  
Consumer Devices  
Industrial  
Others

Automotive holds the largest share in the market

The report has provided a detailed breakup and analysis of the market based on the application. This includes automotive (powertrain and chassis, body electronics, safety and security systems, infotainment and telematics), consumer devices, industrial, and others. According to the report, automotive represented the largest segment.

Microcontrollers play a crucial role in the automotive industry, contributing to the advanced functionality and safety of modern vehicles. Their uses in automotive applications are diverse and essential. Microcontrollers manage the engine's functions, optimizing fuel injection, ignition timing, and air-fuel mixture for improved efficiency and reduced emissions. Microcontrollers are at the heart of safety systems like airbag deployment, antilock braking systems (ABS), electronic stability control (ESC), and traction control systems (TCS), enhancing driver and passenger safety. They power infotainment systems, including touchscreens, GPS navigation, audio systems, and smartphone connectivity, providing entertainment and information for drivers and passengers. Microcontrollers regulate climate control systems, ensuring accurate temperature and ventilation settings within the vehicle cabin. They manage automatic transmission systems, optimizing gear shifts for smooth driving and improved fuel economy. Microcontrollers control adaptive headlights, LED lighting, and automatic headlight leveling, enhancing visibility and safety.

Breakup by Region:

North America  
Europe  
Asia Pacific  
Latin America  
Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share.

The Asia Pacific region is witnessing significant industrialization, particularly in countries like China, India, and Vietnam. This is leading to increased demand for microcontrollers in industrial automation, robotics, and manufacturing processes. Asia Pacific is a global hub for consumer electronics manufacturing and consumption. The proliferation of smartphones, smart home devices, and wearable technology is fueling the demand for microcontrollers, which are essential components in these products. The automotive industry in the region is expanding rapidly. Microcontrollers play a vital role in modern vehicles, powering safety systems, infotainment, and electric vehicle technology, driving demand in this sector. The Internet of Things (IoT) is gaining traction in Asia Pacific, with applications in smart cities, agriculture, healthcare, and more. Microcontrollers are at the core of IoT devices, driving their integration and deployment. Governments in the region are promoting initiatives related to electronics manufacturing and technology development. These initiatives encourage innovation and create a favorable environment for microcontroller-related industries.

#### Competitive Landscape:

The market is highly competitive, with key players continually innovating and strategizing to maintain and expand their market share. Leading companies like Intel, Texas Instruments, and Renesas Electronics are heavily investing in research and development (R&D) to introduce cutting-edge microcontroller solutions. They focus on improving processing power, power efficiency, and integration of peripherals to meet evolving industry demands. Key players are diversifying their product portfolios to cater to a wide range of applications. This includes offering microcontrollers tailored for automotive, industrial, consumer electronics, and IoT markets. Companies often acquire or merge with other firms to expand their capabilities and product offerings. Collaboration with other technology companies, software providers, and industry leaders is common. These partnerships enhance the compatibility and functionality of microcontroller solutions in various ecosystems.

The market research report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:



Analog Devices Inc.  
Broadcom Inc.  
Infineon Technologies AG  
Intel Corporation  
Microchip Technology Inc.  
NXP Semiconductors N.V.  
Onsemi  
Renesas Electronics Corporation  
ROHM Co., Ltd.  
STMicroelectronics N.V.  
Texas Instruments Incorporated  
Toshiba Electronic Devices & Storage Corporation (Toshiba Corporation)

#### Recent Developments:

In September 2023, Analog Devices, Inc. (Nasdaq: ADI) announced that the Company's it will participate at the prestigious J.P. Morgan 14th Annual U.S. All Stars Conference located in London, England, discussing business topics and trends .

In September 2023, Broadcom Inc announced its participation in Google Cloud Next, addressing the myriad of security and privacy issues that generative AI brings.

In June 2023, Renesas announced to introduce of their first MCU on the new 22nm node. This MCU will be an expansion of the RA 32-bit Arm Cortex-M family and will be specifically designed for wireless applications.

#### Key Questions Answered in This Report

1. How big is the global microcontroller market?
2. What is the expected growth rate of the global microcontroller market during 2024-2032?
3. What are the key factors driving the global microcontroller market?
4. What has been the impact of COVID-19 on the global microcontroller market?
5. What is the breakup of the global microcontroller market based on the product type?
6. What is the breakup of the global microcontroller market based on the application?
7. What are the key regions in the global microcontroller market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL MICROCONTROLLER MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Product Type
- 5.5 Market Breakup by Architecture
- 5.6 Market Breakup by Memory
- 5.7 Market Breakup by Application
- 5.8 Market Breakup by Region
- 5.9 Market Forecast

### **6 MARKET BREAKUP BY PRODUCT TYPE**

- 6.1 8-Bit
  - 6.1.1 Market Trends

- 6.1.2 Market Forecast
- 6.2 16-Bit
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 32-Bit
  - 6.3.1 Market Trends
  - 6.3.2 Market Forecast
- 6.4 64-Bit
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast
- 6.5 Others
  - 6.5.1 Market Trends
  - 6.5.2 Market Forecast

## **7 MARKET BREAKUP BY ARCHITECTURE**

- 7.1 8051 Architecture
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 AVR Architecture
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 PIC Architecture
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 ARM Architecture
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast
- 7.5 Others
  - 7.5.1 Market Trends
  - 7.5.2 Market Forecast

## **8 MARKET BREAKUP BY MEMORY**

- 8.1 Embedded Memory Microcontroller
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 External Memory Microcontroller
  - 8.2.1 Market Trends

## 8.2.2 Market Forecast

# 9 MARKET BREAKUP BY APPLICATION

## 9.1 Automotive

### 9.1.1 Market Trends

### 9.1.2 Major Applications

#### 9.1.2.1 Powertrain and Chassis

#### 9.1.2.2 Body Electronics

#### 9.1.2.3 Safety and Security Systems

#### 9.1.2.4 Infotainment and Telematics

### 9.1.3 Market Forecast

## 9.2 Consumer Devices

### 9.2.1 Market Trends

### 9.2.2 Market Forecast

## 9.3 Industrial

### 9.3.1 Market Trends

### 9.3.2 Market Forecast

## 9.4 Others

### 9.4.1 Market Trends

### 9.4.2 Market Forecast

# 10 MARKET BREAKUP BY REGION

## 10.1 Asia Pacific

### 10.1.1 Market Trends

### 10.1.2 Market Forecast

## 10.2 Europe

### 10.2.1 Market Trends

### 10.2.2 Market Forecast

## 10.3 North America

### 10.3.1 Market Trends

### 10.3.2 Market Forecast

## 10.4 Middle East and Africa

### 10.4.1 Market Trends

### 10.4.2 Market Forecast

## 10.5 Latin America

### 10.5.1 Market Trends

### 10.5.2 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTER'S FIVE FORCES ANALYSIS**

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players

## List Of Tables

### LIST OF TABLES

Table 1: Global: Microcontroller Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Microcontroller Market Forecast: Breakup by Product Type (in Billion US\$), 2024-2032

Table 3: Global: Microcontroller Market Forecast: Breakup by Architecture (in Billion US\$), 2024-2032

Table 4: Global: Microcontroller Market Forecast: Breakup by Memory (in Billion US\$), 2024-2032

Table 5: Global: Microcontroller Market Forecast: Breakup by Application (in Billion US\$), 2024-2032

Table 6: Global: Microcontroller Market Forecast: Breakup by Region (in Billion US\$), 2024-2032

Table 7: Global: Microcontroller Market: Competitive Structure

Table 8: Global: Microcontroller Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Microcontroller Market: Major Drivers and Challenges

Figure 2: Global: Microcontroller Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Microcontroller Market: Breakup by Product Type (in %), 2023

Figure 4: Global: Microcontroller Market: Breakup by Architecture (in %), 2023

Figure 5: Global: Microcontroller Market: Breakup by Memory (in %), 2023

Figure 6: Global: Microcontroller Market: Breakup by Application (in %), 2023

Figure 7: Global: Microcontroller Market: Breakup by Region (in %), 2023

Figure 8: Global: Microcontroller Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 9: Global: Microcontroller Industry: SWOT Analysis

Figure 10: Global: Microcontroller Industry: Value Chain Analysis

Figure 11: Global: Microcontroller Industry: Porter's Five Forces Analysis

Figure 12: Global: Microcontroller (8-Bit) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 13: Global: Microcontroller (8-Bit) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 14: Global: Microcontroller (16-Bit) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 15: Global: Microcontroller (16-Bit) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 16: Global: Microcontroller (32-Bit) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 17: Global: Microcontroller (32-Bit) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 18: Global: Microcontroller (64-Bit) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 19: Global: Microcontroller (64-Bit) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 20: Global: Microcontroller (Other Product Types) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 21: Global: Microcontroller (Other Product Types) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 22: Global: Microcontroller (8051 Architecture) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 23: Global: Microcontroller (8051 Architecture) Market Forecast: Sales Value (in

Billion US\$), 2024-2032

Figure 24: Global: Microcontroller (AVR Architecture) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 25: Global: Microcontroller (AVR Architecture) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 26: Global: Microcontroller (PIC Architecture) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 27: Global: Microcontroller (PIC Architecture) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 28: Global: Microcontroller (ARM Architecture) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 29: Global: Microcontroller (ARM Architecture) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 30: Global: Microcontroller (Other Architectures) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 31: Global: Microcontroller (Other Architectures) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 32: Global: Microcontroller (Embedded Memory Microcontroller) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 33: Global: Microcontroller (Embedded Memory Microcontroller) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 34: Global: Microcontroller (External Memory Microcontroller) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 35: Global: Microcontroller (External Memory Microcontroller) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 36: Global: Microcontroller (Automotive) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 37: Global: Microcontroller (Automotive) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 38: Global: Microcontroller (Consumer Devices) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 39: Global: Microcontroller (Consumer Devices) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 40: Global: Microcontroller (Industrial) Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 41: Global: Microcontroller (Industrial) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 42: Global: Microcontroller (Other Applications) Market: Sales Value (in Billion US\$), 2018 & 2023



Figure 43: Global: Microcontroller (Other Applications) Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 44: Asia Pacific: Microcontroller Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 45: Asia Pacific: Microcontroller Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 46: Europe: Microcontroller Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 47: Europe: Microcontroller Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 48: North America: Microcontroller Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 49: North America: Microcontroller Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 50: Middle East and Africa: Microcontroller Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 51: Middle East and Africa: Microcontroller Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 52: Latin America: Microcontroller Market: Sales Value (in Billion US\$), 2018 & 2023

Figure 53: Latin America: Microcontroller Market Forecast: Sales Value (in Billion US\$), 2024-2032

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