

Global Microcontroller Market By Bit Class (8-bit, 16-bit, 32-bit, Others), By Application (Computer, Automotive, Consumer, Government, Industrial, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

Market Report | 2023-03-01 | 290 pages | Allied Market Research

AVAILABLE LICENSES:

- Cloud Access License \$3456.00
- Business User License \$5730.00
- Enterprise License \$9600.00

Report description:

The global microcontroller market is envisioned to garner \$56.3 billion by 2031, growing from \$19.6 billion in 2021 at a CAGR of 11.7% from 2022 to 2031.

The growing demand for consumer electronics is predicted to be one of the drivers of the microcontroller market. Microcontrollers are used in a wide range of consumer electronics products, from smartphones and smart TVs to home appliances and wearable devices. As these products become more sophisticated and feature-rich, they require increasingly powerful and versatile microcontrollers to manage their complex functions and interfaces. The demand for microcontrollers in consumer electronics is growing due to the trend towards miniaturization and energy efficiency. As devices become smaller and more portable, they require microcontrollers that are small, lightweight, and low power, yet powerful enough to deliver high performance and rich features.

The increasing complexity of microcontrollers is a challenge that the industry is facing. The demand for more advanced features and capabilities is driving the need for more powerful and complex microcontrollers. However, designing and manufacturing these advanced microcontrollers is becoming more challenging and expensive due to the increasing complexity of the circuits and the need for more sophisticated manufacturing processes. Furthermore, the need for higher levels of security in microcontrollers is also adding to the complexity and cost. As microcontrollers are used in more critical applications, such as in medical devices, automotive systems, and industrial control systems, there is a growing need for robust security features to protect against cyber-attacks.

The use of microcontrollers in consumer electronics has been increasing rapidly over the years. Microcontrollers are used in various consumer electronic devices, ranging from smartphones, laptops, and gaming consoles to smart home devices, wearables, and even toys. The demand for these devices is growing, and this trend is expected to continue in the coming years. The increase in the number of smart homes and the growing adoption of Internet of Things (IoT) devices are also driving the demand for

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott-international.com

www.scott-international.com

microcontrollers. Moreover, the miniaturization trend in the electronics industry is also pushing the demand for microcontrollers as they are small and easy to integrate into various devices. As a result, the microcontroller market is expected to grow significantly in the consumer electronics segment in the coming years.

The COVID-19 pandemic brought several uncertainties leading to severe economic losses as various businesses across the world were on a standstill. The pandemic resulted in a decline in demand for microcontrollers in certain industries. For instance, the automotive industry was severely affected by the pandemic, leading to a decline in demand for microcontrollers used in automotive applications such as engine control units, infotainment systems, and advanced driver assistance systems (ADAS). Similarly, the consumer electronics industry experienced a decline in demand for microcontrollers due to supply chain disruptions and reduced consumer spending. However, the pandemic has also led to an increase in demand for microcontrollers in certain industries.

The key players profiled in this report include NXP Semiconductors, Renesas Electronics Corporation., STMicroelectronics, Infineon Technologies AG, Microchip Technology Inc., Texas Instruments, Nuvoton Technology Corporation, GigaDevice, SAMSUNG, and Silicon Laboratories.□□

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the global microcontroller market analysis from 2021 to 2031 to identify the prevailing global microcontroller market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the global microcontroller market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global global microcontroller market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Bit Class

- 8-bit
- 16-bit
- 32-bit
- Others

By Application

- Computer
- Automotive
- Consumer
- Government
- Industrial
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Netherlands
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- United Arab Emirates
- Saudi Arabia
- South Africa
- Rest of LAMEA
- Key Market Players
- NXP Semiconductors
- Renesas Electronics Corporation.
- STMicroelectronics
- Infineon Technologies AG
- Microchip Technology Inc.
- Texas Instruments
- Nuvoton Technology Corporation
- GigaDevice
- SAMSUNG
- Silicon Laboratories.

Table of Contents:

CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research Methodology
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
- 3.4. Market dynamics
 - 3.4.1. Drivers

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 3.4.2. Restraints
- 3.4.3. Opportunities
- 3.5. COVID-19 Impact Analysis on the market
- 3.6. Average Selling Price
- 3.7. Brand Share Analysis
- 3.8. Key Regulation Analysis
- 3.9. Market Share Analysis
- 3.10. Patent Landscape
- 3.11. Regulatory Guidelines
- 3.12. Value Chain Analysis

CHAPTER 4: GLOBAL MICROCONTROLLER MARKET, BY BIT CLASS

- 4.1. Overview
 - 4.1.1. Market size and forecast
- 4.2. 8-bit
 - 4.2.1. Key market trends, growth factors and opportunities
 - 4.2.2. Market size and forecast, by region
 - 4.2.3. Market share analysis by country
- 4.3. 16-bit
 - 4.3.1. Key market trends, growth factors and opportunities
 - 4.3.2. Market size and forecast, by region
 - 4.3.3. Market share analysis by country
- 4.4. 32-bit
 - 4.4.1. Key market trends, growth factors and opportunities
 - 4.4.2. Market size and forecast, by region
 - 4.4.3. Market share analysis by country
- 4.5. Others
 - 4.5.1. Key market trends, growth factors and opportunities
 - 4.5.2. Market size and forecast, by region
 - 4.5.3. Market share analysis by country

CHAPTER 5: GLOBAL MICROCONTROLLER MARKET, BY APPLICATION

- 5.1. Overview
 - 5.1.1. Market size and forecast
- 5.2. Computer
 - 5.2.1. Key market trends, growth factors and opportunities
 - 5.2.2. Market size and forecast, by region
 - 5.2.3. Market share analysis by country
- 5.3. Automotive
 - 5.3.1. Key market trends, growth factors and opportunities
 - 5.3.2. Market size and forecast, by region
 - 5.3.3. Market share analysis by country
- 5.4. Consumer
 - 5.4.1. Key market trends, growth factors and opportunities
 - 5.4.2. Market size and forecast, by region
 - 5.4.3. Market share analysis by country
- 5.5. Government
 - 5.5.1. Key market trends, growth factors and opportunities
 - 5.5.2. Market size and forecast, by region

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.5.3. Market share analysis by country
- 5.6. Industrial
 - 5.6.1. Key market trends, growth factors and opportunities
 - 5.6.2. Market size and forecast, by region
 - 5.6.3. Market share analysis by country
- 5.7. Others
 - 5.7.1. Key market trends, growth factors and opportunities
 - 5.7.2. Market size and forecast, by region
 - 5.7.3. Market share analysis by country
- CHAPTER 6: GLOBAL MICROCONTROLLER MARKET, BY REGION
- 6.1. Overview
 - 6.1.1. Market size and forecast By Region
- 6.2. North America
 - 6.2.1. Key trends and opportunities
 - 6.2.2. Market size and forecast, by Bit Class
 - 6.2.3. Market size and forecast, by Application
 - 6.2.4. Market size and forecast, by country
 - 6.2.4.1. U.S.
 - 6.2.4.1.1. Key market trends, growth factors and opportunities
 - 6.2.4.1.2. Market size and forecast, by Bit Class
 - 6.2.4.1.3. Market size and forecast, by Application
 - 6.2.4.2. Canada
 - 6.2.4.2.1. Key market trends, growth factors and opportunities
 - 6.2.4.2.2. Market size and forecast, by Bit Class
 - 6.2.4.2.3. Market size and forecast, by Application
 - 6.2.4.3. Mexico
 - 6.2.4.3.1. Key market trends, growth factors and opportunities
 - 6.2.4.3.2. Market size and forecast, by Bit Class
 - 6.2.4.3.3. Market size and forecast, by Application
- 6.3. Europe
 - 6.3.1. Key trends and opportunities
 - 6.3.2. Market size and forecast, by Bit Class
 - 6.3.3. Market size and forecast, by Application
 - 6.3.4. Market size and forecast, by country
 - 6.3.4.1. Germany
 - 6.3.4.1.1. Key market trends, growth factors and opportunities
 - 6.3.4.1.2. Market size and forecast, by Bit Class
 - 6.3.4.1.3. Market size and forecast, by Application
 - 6.3.4.2. UK
 - 6.3.4.2.1. Key market trends, growth factors and opportunities
 - 6.3.4.2.2. Market size and forecast, by Bit Class
 - 6.3.4.2.3. Market size and forecast, by Application
 - 6.3.4.3. France
 - 6.3.4.3.1. Key market trends, growth factors and opportunities
 - 6.3.4.3.2. Market size and forecast, by Bit Class
 - 6.3.4.3.3. Market size and forecast, by Application
 - 6.3.4.4. Netherlands

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.3.4.4.1. Key market trends, growth factors and opportunities
- 6.3.4.4.2. Market size and forecast, by Bit Class
- 6.3.4.4.3. Market size and forecast, by Application
- 6.3.4.5. Italy
 - 6.3.4.5.1. Key market trends, growth factors and opportunities
 - 6.3.4.5.2. Market size and forecast, by Bit Class
 - 6.3.4.5.3. Market size and forecast, by Application
- 6.3.4.6. Rest of Europe
 - 6.3.4.6.1. Key market trends, growth factors and opportunities
 - 6.3.4.6.2. Market size and forecast, by Bit Class
 - 6.3.4.6.3. Market size and forecast, by Application
- 6.4. Asia-Pacific
 - 6.4.1. Key trends and opportunities
 - 6.4.2. Market size and forecast, by Bit Class
 - 6.4.3. Market size and forecast, by Application
 - 6.4.4. Market size and forecast, by country
 - 6.4.4.1. China
 - 6.4.4.1.1. Key market trends, growth factors and opportunities
 - 6.4.4.1.2. Market size and forecast, by Bit Class
 - 6.4.4.1.3. Market size and forecast, by Application
 - 6.4.4.2. Japan
 - 6.4.4.2.1. Key market trends, growth factors and opportunities
 - 6.4.4.2.2. Market size and forecast, by Bit Class
 - 6.4.4.2.3. Market size and forecast, by Application
 - 6.4.4.3. India
 - 6.4.4.3.1. Key market trends, growth factors and opportunities
 - 6.4.4.3.2. Market size and forecast, by Bit Class
 - 6.4.4.3.3. Market size and forecast, by Application
 - 6.4.4.4. South Korea
 - 6.4.4.4.1. Key market trends, growth factors and opportunities
 - 6.4.4.4.2. Market size and forecast, by Bit Class
 - 6.4.4.4.3. Market size and forecast, by Application
 - 6.4.4.5. Australia
 - 6.4.4.5.1. Key market trends, growth factors and opportunities
 - 6.4.4.5.2. Market size and forecast, by Bit Class
 - 6.4.4.5.3. Market size and forecast, by Application
 - 6.4.4.6. Rest of Asia-Pacific
 - 6.4.4.6.1. Key market trends, growth factors and opportunities
 - 6.4.4.6.2. Market size and forecast, by Bit Class
 - 6.4.4.6.3. Market size and forecast, by Application
- 6.5. LAMEA
 - 6.5.1. Key trends and opportunities
 - 6.5.2. Market size and forecast, by Bit Class
 - 6.5.3. Market size and forecast, by Application
 - 6.5.4. Market size and forecast, by country
 - 6.5.4.1. Brazil
 - 6.5.4.1.1. Key market trends, growth factors and opportunities

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.5.4.1.2. Market size and forecast, by Bit Class
- 6.5.4.1.3. Market size and forecast, by Application
- 6.5.4.2. United Arab Emirates
 - 6.5.4.2.1. Key market trends, growth factors and opportunities
 - 6.5.4.2.2. Market size and forecast, by Bit Class
 - 6.5.4.2.3. Market size and forecast, by Application
- 6.5.4.3. Saudi Arabia
 - 6.5.4.3.1. Key market trends, growth factors and opportunities
 - 6.5.4.3.2. Market size and forecast, by Bit Class
 - 6.5.4.3.3. Market size and forecast, by Application
- 6.5.4.4. South Africa
 - 6.5.4.4.1. Key market trends, growth factors and opportunities
 - 6.5.4.4.2. Market size and forecast, by Bit Class
 - 6.5.4.4.3. Market size and forecast, by Application
- 6.5.4.5. Rest of LAMEA
 - 6.5.4.5.1. Key market trends, growth factors and opportunities
 - 6.5.4.5.2. Market size and forecast, by Bit Class
 - 6.5.4.5.3. Market size and forecast, by Application

CHAPTER 7: COMPETITIVE LANDSCAPE

- 7.1. Introduction
- 7.2. Top winning strategies
- 7.3. Product Mapping of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap
- 7.6. Top player positioning, 2021

CHAPTER 8: COMPANY PROFILES

- 8.1. NXP Semiconductors
 - 8.1.1. Company overview
 - 8.1.2. Key Executives
 - 8.1.3. Company snapshot
- 8.2. Renesas Electronics Corporation.
 - 8.2.1. Company overview
 - 8.2.2. Key Executives
 - 8.2.3. Company snapshot
- 8.3. STMicroelectronics
 - 8.3.1. Company overview
 - 8.3.2. Key Executives
 - 8.3.3. Company snapshot
- 8.4. Infineon Technologies AG
 - 8.4.1. Company overview
 - 8.4.2. Key Executives
 - 8.4.3. Company snapshot
- 8.5. Microchip Technology Inc.
 - 8.5.1. Company overview
 - 8.5.2. Key Executives
 - 8.5.3. Company snapshot
- 8.6. Texas Instruments

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.6.1. Company overview
- 8.6.2. Key Executives
- 8.6.3. Company snapshot
- 8.7. Nuvoton Technology Corporation
 - 8.7.1. Company overview
 - 8.7.2. Key Executives
 - 8.7.3. Company snapshot
- 8.8. GigaDevice
 - 8.8.1. Company overview
 - 8.8.2. Key Executives
 - 8.8.3. Company snapshot
- 8.9. SAMSUNG
 - 8.9.1. Company overview
 - 8.9.2. Key Executives
 - 8.9.3. Company snapshot
- 8.10. Silicon Laboratories.
 - 8.10.1. Company overview
 - 8.10.2. Key Executives
 - 8.10.3. Company snapshot

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global Microcontroller Market By Bit Class (8-bit, 16-bit, 32-bit, Others), By Application (Computer, Automotive, Consumer, Government, Industrial, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

Market Report | 2023-03-01 | 290 pages | Allied Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Cloud Access License	\$3456.00
	Business User License	\$5730.00
	Enterprise License	\$9600.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-10"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Signature

An empty rectangular box with a thin black border, intended for a signature.