

# Global 16-bit Automotive Microcontrollers (MCU) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 16-bit Automotive Microcontrollers (MCU) market size is expected to reach \$ 3591 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Global sales of 16-bit automotive microcontrollers (MCUs) are projected to reach 3.8 billion units by 2025, with an average selling price of approximately \$630 per thousand units.

A 16-bit automotive microcontroller (MCU) is a 16-bit computing core chip specifically designed for automotive electronics. It integrates a CPU, memory (ROM/RAM/Flash), I/O interfaces, and peripheral modules (such as ADC, PWM, and CAN bus interfaces). Its core function is to achieve moderately complex real-time control via a 16-bit data bus. It is suitable for powertrain systems (such as engine control and electric turbochargers), chassis control (such as electric power steering and braking systems), and body electronics (such as window and lighting control), balancing performance and cost. The industry's gross margin is approximately 40%-55%.

Upstream: Includes raw materials such as silicon wafers and photoresists, as well as suppliers of lithography machines and testing equipment; Midstream: MCU design companies produce through IDM or fabless models; automotive-grade products require AEC-Q100 and functional safety certifications; Downstream: Applied to powertrain systems, chassis control, body electronics, smart cockpits, etc., with automakers and Tier 1 suppliers as core customers.

Market drivers mainly include the following:

The accelerated electrification and intelligentization of automobiles are driving demand upgrades. Electric vehicles are experiencing a surge in demand for MCUs in motor control and battery management systems (BMS). For example, each BMS main control panel and slave control panel requires one MCU, and the vehicle controller (VCU) needs to be equipped with a 32-bit high-end MCU. Simultaneously, intelligent cockpits

and autonomous driving systems require the deployment of more sensors and actuators, pushing the number of MCUs per vehicle from 70 in traditional gasoline vehicles to 300 in intelligent vehicles. Among these, 16-bit MCUs have become the mainstream choice for mid-range control tasks due to their cost-effectiveness. Functional safety and low-power requirements drive technological iteration. Automotive electronics have stringent reliability requirements, needing to operate stably for over 15 years in environments ranging from -40° to 150°. 16-bit MCUs improve their anti-interference capabilities by optimizing internal oscillation circuits and integrating hardware CRC checks, while employing low-power designs (such as dynamic voltage regulation) to extend battery life. Furthermore, some manufacturers are reducing R&D costs through the RISC-V open-source architecture, promoting the widespread application of 16-bit MCUs in the automotive-grade field. Domestic substitution policies and supply chain security drive localization. International manufacturers have long monopolized the automotive-grade MCU market (accounting for over 90%), but geopolitical risks and chip shortages are prompting automakers to accelerate domestic substitution. Domestic policies support local companies in achieving automotive-grade certifications (such as AEC-Q100 and ISO 26262) through tax incentives and R&D subsidies. Companies like GigaDevice and Chipsea Technologies have already achieved mass production and shipments. In the future, they need to gradually narrow the gap with international giants by expanding mass production scale and increasing the proportion of high-end products. This report studies the global 16-bit Automotive Microcontrollers (MCU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 16-bit Automotive Microcontrollers (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 16-bit Automotive Microcontrollers (MCU) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global 16-bit Automotive Microcontrollers (MCU) total production and demand, 2021-2032, (Million Units)

Global 16-bit Automotive Microcontrollers (MCU) total production value, 2021-2032, (USD Million)

Global 16-bit Automotive Microcontrollers (MCU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 16-bit Automotive Microcontrollers (MCU) consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 16-bit Automotive Microcontrollers (MCU) domestic production, consumption, key domestic manufacturers and share

Global 16-bit Automotive Microcontrollers (MCU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 16-bit Automotive Microcontrollers (MCU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 16-bit Automotive Microcontrollers (MCU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 16-bit Automotive Microcontrollers (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 Infineon Technologies, NXP Semiconductors, Renesas Electronics, Microchip Technology, STMicroelectronics, Texas Instruments, Analog Devices, Silicon Laboratories, Toshiba, Giga Device Semiconductor, 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 16-bit Automotive Microcontrollers (MCU) market

#### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 16-bit Automotive Microcontrollers (MCU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global 16-bit Automotive Microcontrollers (MCU) Market, Segmentation by Type:

Vehicle To Vehicle (V2V) Connectivity

Vehicle To Infrastructure (V2I) Connectivity

Vehicle To Cloud (V2C) Connectivity

#### Global 16-bit Automotive Microcontrollers (MCU) Market, Segmentation by Technology:

Basic Control Type

Functional Safety Type

#### Global 16-bit Automotive Microcontrollers (MCU) Market, Segmentation by Functional Category:

Power Domain MCU

Chassis Domain MCU

#### Global 16-bit Automotive Microcontrollers (MCU) Market, Segmentation by Application:

Body Electronics

Chassis & Powertrain

Infotainment & Telematics

Safety & Security

**Companies Profiled:**

Infineon Technologies

NXP Semiconductors

Renesas Electronics

Microchip Technology

STMicroelectronics

Texas Instruments

Analog Devices

Silicon Laboratories

Toshiba

Giga Device Semiconductor

**Key Questions Answered:**

1. How big is the global 16-bit Automotive Microcontrollers (MCU) market?
2. What is the demand of the global 16-bit Automotive Microcontrollers (MCU) market?
3. What is the year over year growth of the global 16-bit Automotive Microcontrollers (MCU) market?
4. What is the production and production value of the global 16-bit Automotive Microcontrollers (MCU) market?
5. Who are the key producers in the global 16-bit Automotive Microcontrollers (MCU) market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 16-bit Automotive Microcontrollers (MCU) Introduction
- 1.2 World 16-bit Automotive Microcontrollers (MCU) Supply & Forecast
  - 1.2.1 World 16-bit Automotive Microcontrollers (MCU) Production Value (2021 & 2025 & 2032)
  - 1.2.2 World 16-bit Automotive Microcontrollers (MCU) Production (2021-2032)
  - 1.2.3 World 16-bit Automotive Microcontrollers (MCU) Pricing Trends (2021-2032)
- 1.3 World 16-bit Automotive Microcontrollers (MCU) Production by Region (Based on Production Site)
  - 1.3.1 World 16-bit Automotive Microcontrollers (MCU) Production Value by Region (2021-2032)
  - 1.3.2 World 16-bit Automotive Microcontrollers (MCU) Production by Region (2021-2032)
  - 1.3.3 World 16-bit Automotive Microcontrollers (MCU) Average Price by Region (2021-2032)
  - 1.3.4 North America 16-bit Automotive Microcontrollers (MCU) Production (2021-2032)
  - 1.3.5 Europe 16-bit Automotive Microcontrollers (MCU) Production (2021-2032)
  - 1.3.6 China 16-bit Automotive Microcontrollers (MCU) Production (2021-2032)
  - 1.3.7 Japan 16-bit Automotive Microcontrollers (MCU) Production (2021-2032)
  - 1.3.8 South Korea 16-bit Automotive Microcontrollers (MCU) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 16-bit Automotive Microcontrollers (MCU) Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 16-bit Automotive Microcontrollers (MCU) Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World 16-bit Automotive Microcontrollers (MCU) Demand (2021-2032)
- 2.2 World 16-bit Automotive Microcontrollers (MCU) Consumption by Region
  - 2.2.1 World 16-bit Automotive Microcontrollers (MCU) Consumption by Region (2021-2026)
  - 2.2.2 World 16-bit Automotive Microcontrollers (MCU) Consumption Forecast by Region (2027-2032)
- 2.3 United States 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032)
- 2.4 China 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032)
- 2.5 Europe 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032)

- 2.6 Japan 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032)
- 2.7 South Korea 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032)
- 2.8 ASEAN 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032)
- 2.9 India 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World 16-bit Automotive Microcontrollers (MCU) Production Value by Manufacturer (2021-2026)

3.2 World 16-bit Automotive Microcontrollers (MCU) Production by Manufacturer (2021-2026)

3.3 World 16-bit Automotive Microcontrollers (MCU) Average Price by Manufacturer (2021-2026)

3.4 16-bit Automotive Microcontrollers (MCU) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global 16-bit Automotive Microcontrollers (MCU) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for 16-bit Automotive Microcontrollers (MCU) in 2025

3.5.3 Global Concentration Ratios (CR8) for 16-bit Automotive Microcontrollers (MCU) in 2025

3.6 16-bit Automotive Microcontrollers (MCU) Market: Overall Company Footprint Analysis

3.6.1 16-bit Automotive Microcontrollers (MCU) Market: Region Footprint

3.6.2 16-bit Automotive Microcontrollers (MCU) Market: Company Product Type Footprint

3.6.3 16-bit Automotive Microcontrollers (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: 16-bit Automotive Microcontrollers (MCU) Production Value Comparison

4.1.1 United States VS China: 16-bit Automotive Microcontrollers (MCU) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: 16-bit Automotive Microcontrollers (MCU) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: 16-bit Automotive Microcontrollers (MCU) Production Comparison

4.2.1 United States VS China: 16-bit Automotive Microcontrollers (MCU) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: 16-bit Automotive Microcontrollers (MCU) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: 16-bit Automotive Microcontrollers (MCU) Consumption Comparison

4.3.1 United States VS China: 16-bit Automotive Microcontrollers (MCU) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: 16-bit Automotive Microcontrollers (MCU) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based 16-bit Automotive Microcontrollers (MCU) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 16-bit Automotive Microcontrollers (MCU) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value (2021-2026)

4.4.3 United States Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production (2021-2026)

4.5 China Based 16-bit Automotive Microcontrollers (MCU) Manufacturers and Market Share

4.5.1 China Based 16-bit Automotive Microcontrollers (MCU) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value (2021-2026)

4.5.3 China Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production (2021-2026)

4.6 Rest of World Based 16-bit Automotive Microcontrollers (MCU) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 16-bit Automotive Microcontrollers (MCU) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 16-bit Automotive Microcontrollers (MCU)

Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World 16-bit Automotive Microcontrollers (MCU) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Vehicle To Vehicle (V2V) Connectivity

5.2.2 Vehicle To Infrastructure (V2I) Connectivity

5.2.3 Vehicle To Cloud (V2C) Connectivity

5.3 Market Segment by Type

5.3.1 World 16-bit Automotive Microcontrollers (MCU) Production by Type (2021-2032)

5.3.2 World 16-bit Automotive Microcontrollers (MCU) Production Value by Type (2021-2032)

5.3.3 World 16-bit Automotive Microcontrollers (MCU) Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY TECHNOLOGY**

6.1 World 16-bit Automotive Microcontrollers (MCU) Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 Basic Control Type

6.2.2 Functional Safety Type

6.3 Market Segment by Technology

6.3.1 World 16-bit Automotive Microcontrollers (MCU) Production by Technology (2021-2032)

6.3.2 World 16-bit Automotive Microcontrollers (MCU) Production Value by Technology (2021-2032)

6.3.3 World 16-bit Automotive Microcontrollers (MCU) Average Price by Technology (2021-2032)

## **7 MARKET ANALYSIS BY FUNCTIONAL CATEGORY**

7.1 World 16-bit Automotive Microcontrollers (MCU) Market Size Overview by Functional Category: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Functional Category

7.2.1 Power Domain MCU

7.2.2 Chassis Domain MCU

## 7.3 Market Segment by Functional Category

7.3.1 World 16-bit Automotive Microcontrollers (MCU) Production by Functional Category (2021-2032)

7.3.2 World 16-bit Automotive Microcontrollers (MCU) Production Value by Functional Category (2021-2032)

7.3.3 World 16-bit Automotive Microcontrollers (MCU) Average Price by Functional Category (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World 16-bit Automotive Microcontrollers (MCU) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Body Electronics

8.2.2 Chassis & Powertrain

8.2.3 Infotainment & Telematics

8.2.4 Safety & Security

8.3 Market Segment by Application

8.3.1 World 16-bit Automotive Microcontrollers (MCU) Production by Application (2021-2032)

8.3.2 World 16-bit Automotive Microcontrollers (MCU) Production Value by Application (2021-2032)

8.3.3 World 16-bit Automotive Microcontrollers (MCU) Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

9.1 Infineon Technologies

9.1.1 Infineon Technologies Details

9.1.2 Infineon Technologies Major Business

9.1.3 Infineon Technologies 16-bit Automotive Microcontrollers (MCU) Product and Services

9.1.4 Infineon Technologies 16-bit Automotive Microcontrollers (MCU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Infineon Technologies Recent Developments/Updates

9.1.6 Infineon Technologies Competitive Strengths & Weaknesses

9.2 NXP Semiconductors

9.2.1 NXP Semiconductors Details

9.2.2 NXP Semiconductors Major Business

9.2.3 NXP Semiconductors 16-bit Automotive Microcontrollers (MCU) Product and Services

9.2.4 NXP Semiconductors 16-bit Automotive Microcontrollers (MCU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 NXP Semiconductors Recent Developments/Updates

9.2.6 NXP Semiconductors 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 16-bit Automotive Microcontrollers (MCU) Product and Services

9.3.4 Renesas Electronics 16-bit Automotive Microcontrollers (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 Microchip Technology

9.4.1 Microchip Technology Details

9.4.2 Microchip Technology Major Business

9.4.3 Microchip Technology 16-bit Automotive Microcontrollers (MCU) Product and Services

9.4.4 Microchip Technology 16-bit Automotive Microcontrollers (MCU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Microchip Technology Recent Developments/Updates

9.4.6 Microchip Technology Competitive Strengths & Weaknesses

9.5 STMicroelectronics

9.5.1 STMicroelectronics Details

9.5.2 STMicroelectronics Major Business

9.5.3 STMicroelectronics 16-bit Automotive Microcontrollers (MCU) Product and Services

9.5.4 STMicroelectronics 16-bit Automotive Microcontrollers (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 Texas Instruments

9.6.1 Texas Instruments Details

9.6.2 Texas Instruments Major Business

9.6.3 Texas Instruments 16-bit Automotive Microcontrollers (MCU) Product and Services

9.6.4 Texas Instruments 16-bit Automotive Microcontrollers (MCU) Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.6.5 Texas Instruments Recent Developments/Updates

9.6.6 Texas Instruments Competitive Strengths & Weaknesses

9.7 Analog Devices

9.7.1 Analog Devices Details

9.7.2 Analog Devices Major Business

9.7.3 Analog Devices 16-bit Automotive Microcontrollers (MCU) Product and Services

9.7.4 Analog Devices 16-bit Automotive Microcontrollers (MCU) Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.7.5 Analog Devices Recent Developments/Updates

9.7.6 Analog Devices Competitive Strengths & Weaknesses

9.8 Silicon Laboratories

9.8.1 Silicon Laboratories Details

9.8.2 Silicon Laboratories Major Business

9.8.3 Silicon Laboratories 16-bit Automotive Microcontrollers (MCU) Product and Services

9.8.4 Silicon Laboratories 16-bit Automotive Microcontrollers (MCU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Silicon Laboratories Recent Developments/Updates

9.8.6 Silicon Laboratories Competitive Strengths & Weaknesses

9.9 Toshiba

9.9.1 Toshiba Details

9.9.2 Toshiba Major Business

9.9.3 Toshiba 16-bit Automotive Microcontrollers (MCU) Product and Services

9.9.4 Toshiba 16-bit Automotive Microcontrollers (MCU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Toshiba Recent Developments/Updates

9.9.6 Toshiba Competitive Strengths & Weaknesses

9.10 Giga Device Semiconductor

9.10.1 Giga Device Semiconductor Details

9.10.2 Giga Device Semiconductor Major Business

9.10.3 Giga Device Semiconductor 16-bit Automotive Microcontrollers (MCU) Product and Services

9.10.4 Giga Device Semiconductor 16-bit Automotive Microcontrollers (MCU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Giga Device Semiconductor Recent Developments/Updates

9.10.6 Giga Device Semiconductor Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 16-bit Automotive Microcontrollers (MCU) Industry Chain
- 10.2 16-bit Automotive Microcontrollers (MCU) Upstream Analysis
  - 10.2.1 16-bit Automotive Microcontrollers (MCU) Core Raw Materials
  - 10.2.2 Main Manufacturers of 16-bit Automotive Microcontrollers (MCU) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 16-bit Automotive Microcontrollers (MCU) Production Mode
- 10.6 16-bit Automotive Microcontrollers (MCU) Procurement Model
- 10.7 16-bit Automotive Microcontrollers (MCU) Industry Sales Model and Sales Channels
  - 10.7.1 16-bit Automotive Microcontrollers (MCU) Sales Model
  - 10.7.2 16-bit Automotive Microcontrollers (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 16-bit Automotive Microcontrollers (MCU) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 16-bit Automotive Microcontrollers (MCU) Production Value by Region (2021-2026) & (USD Million)

Table 3. World 16-bit Automotive Microcontrollers (MCU) Production Value by Region (2027-2032) & (USD Million)

Table 4. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Region (2021-2026)

Table 5. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Region (2027-2032)

Table 6. World 16-bit Automotive Microcontrollers (MCU) Production by Region (2021-2026) & (Million Units)

Table 7. World 16-bit Automotive Microcontrollers (MCU) Production by Region (2027-2032) & (Million Units)

Table 8. World 16-bit Automotive Microcontrollers (MCU) Production Market Share by Region (2021-2026)

Table 9. World 16-bit Automotive Microcontrollers (MCU) Production Market Share by Region (2027-2032)

Table 10. World 16-bit Automotive Microcontrollers (MCU) Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World 16-bit Automotive Microcontrollers (MCU) Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. 16-bit Automotive Microcontrollers (MCU) Major Market Trends

Table 13. World 16-bit Automotive Microcontrollers (MCU) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World 16-bit Automotive Microcontrollers (MCU) Consumption by Region (2021-2026) & (Million Units)

Table 15. World 16-bit Automotive Microcontrollers (MCU) Consumption Forecast by Region (2027-2032) & (Million Units)

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

Table 17. Production Value Market Share of Key 16-bit Automotive Microcontrollers (MCU) Producers in 2025

Table 18. World 16-bit Automotive Microcontrollers (MCU) Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key 16-bit Automotive Microcontrollers (MCU) Producers in 2025

Table 20. World 16-bit Automotive Microcontrollers (MCU) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global 16-bit Automotive Microcontrollers (MCU) Company Evaluation Quadrant

Table 22. World 16-bit Automotive Microcontrollers (MCU) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 16-bit Automotive Microcontrollers (MCU) Production Site of Key Manufacturer

Table 24. 16-bit Automotive Microcontrollers (MCU) Market: Company Product Type Footprint

Table 25. 16-bit Automotive Microcontrollers (MCU) Market: Company Product Application Footprint

Table 26. 16-bit Automotive Microcontrollers (MCU) Competitive Factors

Table 27. 16-bit Automotive Microcontrollers (MCU) New Entrant and Capacity Expansion Plans

Table 28. 16-bit Automotive Microcontrollers (MCU) Mergers & Acquisitions Activity

Table 29. United States VS China 16-bit Automotive Microcontrollers (MCU) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 16-bit Automotive Microcontrollers (MCU) Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China 16-bit Automotive Microcontrollers (MCU) Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based 16-bit Automotive Microcontrollers (MCU) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Market Share (2021-2026)

Table 37. China Based 16-bit Automotive Microcontrollers (MCU) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 16-bit Automotive Microcontrollers (MCU)

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Market Share (2021-2026)

Table 42. Rest of World Based 16-bit Automotive Microcontrollers (MCU) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Market Share (2021-2026)

Table 47. World 16-bit Automotive Microcontrollers (MCU) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 16-bit Automotive Microcontrollers (MCU) Production by Type (2021-2026) & (Million Units)

Table 49. World 16-bit Automotive Microcontrollers (MCU) Production by Type (2027-2032) & (Million Units)

Table 50. World 16-bit Automotive Microcontrollers (MCU) Production Value by Type (2021-2026) & (USD Million)

Table 51. World 16-bit Automotive Microcontrollers (MCU) Production Value by Type (2027-2032) & (USD Million)

Table 52. World 16-bit Automotive Microcontrollers (MCU) Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World 16-bit Automotive Microcontrollers (MCU) Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World 16-bit Automotive Microcontrollers (MCU) Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World 16-bit Automotive Microcontrollers (MCU) Production by Technology (2021-2026) & (Million Units)

Table 56. World 16-bit Automotive Microcontrollers (MCU) Production by Technology (2027-2032) & (Million Units)

Table 57. World 16-bit Automotive Microcontrollers (MCU) Production Value by Technology (2021-2026) & (USD Million)

Table 58. World 16-bit Automotive Microcontrollers (MCU) Production Value by Technology (2027-2032) & (USD Million)

- Table 59. World 16-bit Automotive Microcontrollers (MCU) Average Price by Technology (2021-2026) & (US\$/Unit)
- Table 60. World 16-bit Automotive Microcontrollers (MCU) Average Price by Technology (2027-2032) & (US\$/Unit)
- Table 61. World 16-bit Automotive Microcontrollers (MCU) Production Value by Functional Category, (USD Million), 2021 & 2025 & 2032
- Table 62. World 16-bit Automotive Microcontrollers (MCU) Production by Functional Category (2021-2026) & (Million Units)
- Table 63. World 16-bit Automotive Microcontrollers (MCU) Production by Functional Category (2027-2032) & (Million Units)
- Table 64. World 16-bit Automotive Microcontrollers (MCU) Production Value by Functional Category (2021-2026) & (USD Million)
- Table 65. World 16-bit Automotive Microcontrollers (MCU) Production Value by Functional Category (2027-2032) & (USD Million)
- Table 66. World 16-bit Automotive Microcontrollers (MCU) Average Price by Functional Category (2021-2026) & (US\$/Unit)
- Table 67. World 16-bit Automotive Microcontrollers (MCU) Average Price by Functional Category (2027-2032) & (US\$/Unit)
- Table 68. World 16-bit Automotive Microcontrollers (MCU) Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World 16-bit Automotive Microcontrollers (MCU) Production by Application (2021-2026) & (Million Units)
- Table 70. World 16-bit Automotive Microcontrollers (MCU) Production by Application (2027-2032) & (Million Units)
- Table 71. World 16-bit Automotive Microcontrollers (MCU) Production Value by Application (2021-2026) & (USD Million)
- Table 72. World 16-bit Automotive Microcontrollers (MCU) Production Value by Application (2027-2032) & (USD Million)
- Table 73. World 16-bit Automotive Microcontrollers (MCU) Average Price by Application (2021-2026) & (US\$/Unit)
- Table 74. World 16-bit Automotive Microcontrollers (MCU) Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. Infineon Technologies Basic Information, Manufacturing Base and Competitors
- Table 76. Infineon Technologies Major Business
- Table 77. Infineon Technologies 16-bit Automotive Microcontrollers (MCU) Product and Services
- Table 78. Infineon Technologies 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and

## Market Share (2021-2026)

Table 79. Infineon Technologies Recent Developments/Updates

Table 80. Infineon Technologies Competitive Strengths &amp; Weaknesses

Table 81. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 82. NXP Semiconductors Major Business

Table 83. NXP Semiconductors 16-bit Automotive Microcontrollers (MCU) Product and Services

Table 84. NXP Semiconductors 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. NXP Semiconductors Recent Developments/Updates

Table 86. NXP Semiconductors Competitive Strengths &amp; Weaknesses

Table 87. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 88. Renesas Electronics Major Business

Table 89. Renesas Electronics 16-bit Automotive Microcontrollers (MCU) Product and Services

Table 90. Renesas Electronics 16-bit Automotive Microcontrollers (MCU) Production (Million 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 &amp; Weaknesses

Table 93. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 94. Microchip Technology Major Business

Table 95. Microchip Technology 16-bit Automotive Microcontrollers (MCU) Product and Services

Table 96. Microchip Technology 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Microchip Technology Recent Developments/Updates

Table 98. Microchip Technology Competitive Strengths &amp; Weaknesses

Table 99. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 100. STMicroelectronics Major Business

Table 101. STMicroelectronics 16-bit Automotive Microcontrollers (MCU) Product and Services

Table 102. STMicroelectronics 16-bit Automotive Microcontrollers (MCU) Production (Million 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. Texas Instruments Basic Information, Manufacturing Base and Competitors
- Table 106. Texas Instruments Major Business
- Table 107. Texas Instruments 16-bit Automotive Microcontrollers (MCU) Product and Services
- Table 108. Texas Instruments 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Texas Instruments Recent Developments/Updates
- Table 110. Texas Instruments Competitive Strengths & Weaknesses
- Table 111. Analog Devices Basic Information, Manufacturing Base and Competitors
- Table 112. Analog Devices Major Business
- Table 113. Analog Devices 16-bit Automotive Microcontrollers (MCU) Product and Services
- Table 114. Analog Devices 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Analog Devices Recent Developments/Updates
- Table 116. Analog Devices Competitive Strengths & Weaknesses
- Table 117. Silicon Laboratories Basic Information, Manufacturing Base and Competitors
- Table 118. Silicon Laboratories Major Business
- Table 119. Silicon Laboratories 16-bit Automotive Microcontrollers (MCU) Product and Services
- Table 120. Silicon Laboratories 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Silicon Laboratories Recent Developments/Updates
- Table 122. Silicon Laboratories Competitive Strengths & Weaknesses
- Table 123. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 124. Toshiba Major Business
- Table 125. Toshiba 16-bit Automotive Microcontrollers (MCU) Product and Services
- Table 126. Toshiba 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Toshiba Recent Developments/Updates
- Table 128. Toshiba Competitive Strengths & Weaknesses
- Table 129. Giga Device Semiconductor Basic Information, Manufacturing Base and Competitors

Table 130. Giga Device Semiconductor Major Business

Table 131. Giga Device Semiconductor 16-bit Automotive Microcontrollers (MCU) Product and Services

Table 132. Giga Device Semiconductor 16-bit Automotive Microcontrollers (MCU) Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Giga Device Semiconductor Recent Developments/Updates

Table 134. Giga Device Semiconductor Competitive Strengths & Weaknesses

Table 135. Global Key Players of 16-bit Automotive Microcontrollers (MCU) Upstream (Raw Materials)

Table 136. Global 16-bit Automotive Microcontrollers (MCU) Typical Customers

Table 137. 16-bit Automotive Microcontrollers (MCU) Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. 16-bit Automotive Microcontrollers (MCU) Picture

Figure 2. World 16-bit Automotive Microcontrollers (MCU) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World 16-bit Automotive Microcontrollers (MCU) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World 16-bit Automotive Microcontrollers (MCU) Production (2021-2032) & (Million Units)

Figure 5. World 16-bit Automotive Microcontrollers (MCU) Average Price (2021-2032) & (US\$/Unit)

Figure 6. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Region (2021-2032)

Figure 7. World 16-bit Automotive Microcontrollers (MCU) Production Market Share by Region (2021-2032)

Figure 8. North America 16-bit Automotive Microcontrollers (MCU) Production (2021-2032) & (Million Units)

Figure 9. Europe 16-bit Automotive Microcontrollers (MCU) Production (2021-2032) & (Million Units)

Figure 10. China 16-bit Automotive Microcontrollers (MCU) Production (2021-2032) & (Million Units)

Figure 11. Japan 16-bit Automotive Microcontrollers (MCU) Production (2021-2032) & (Million Units)

Figure 12. South Korea 16-bit Automotive Microcontrollers (MCU) Production (2021-2032) & (Million Units)

Figure 13. 16-bit Automotive Microcontrollers (MCU) Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 16. World 16-bit Automotive Microcontrollers (MCU) Consumption Market Share by Region (2021-2032)

Figure 17. United States 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 18. China 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 19. Europe 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 20. Japan 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 21. South Korea 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 23. India 16-bit Automotive Microcontrollers (MCU) Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of 16-bit Automotive Microcontrollers (MCU) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for 16-bit Automotive Microcontrollers (MCU) Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for 16-bit Automotive Microcontrollers (MCU) Markets in 2025

Figure 27. United States VS China: 16-bit Automotive Microcontrollers (MCU) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: 16-bit Automotive Microcontrollers (MCU) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: 16-bit Automotive Microcontrollers (MCU) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Market Share 2025

Figure 31. China Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Market Share 2025

Figure 32. Rest of World Based Manufacturers 16-bit Automotive Microcontrollers (MCU) Production Market Share 2025

Figure 33. World 16-bit Automotive Microcontrollers (MCU) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Type in 2025

Figure 35. Vehicle To Vehicle (V2V) Connectivity

Figure 36. Vehicle To Infrastructure (V2I) Connectivity

Figure 37. Vehicle To Cloud (V2C) Connectivity

Figure 38. World 16-bit Automotive Microcontrollers (MCU) Production Market Share by Type (2021-2032)

Figure 39. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Type (2021-2032)

Figure 40. World 16-bit Automotive Microcontrollers (MCU) Average Price by Type (2021-2032) & (US\$/Unit)

- Figure 41. World 16-bit Automotive Microcontrollers (MCU) Production Value by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 42. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Technology in 2025
- Figure 43. Basic Control Type
- Figure 44. Functional Safety Type
- Figure 45. World 16-bit Automotive Microcontrollers (MCU) Production Market Share by Technology (2021-2032)
- Figure 46. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Technology (2021-2032)
- Figure 47. World 16-bit Automotive Microcontrollers (MCU) Average Price by Technology (2021-2032) & (US\$/Unit)
- Figure 48. World 16-bit Automotive Microcontrollers (MCU) Production Value by Functional Category, (USD Million), 2021 & 2025 & 2032
- Figure 49. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Functional Category in 2025
- Figure 50. Power Domain MCU
- Figure 51. Chassis Domain MCU
- Figure 52. World 16-bit Automotive Microcontrollers (MCU) Production Market Share by Functional Category (2021-2032)
- Figure 53. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Functional Category (2021-2032)
- Figure 54. World 16-bit Automotive Microcontrollers (MCU) Average Price by Functional Category (2021-2032) & (US\$/Unit)
- Figure 55. World 16-bit Automotive Microcontrollers (MCU) Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 56. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Application in 2025
- Figure 57. Body Electronics
- Figure 58. Chassis & Powertrain
- Figure 59. Infotainment & Telematics
- Figure 60. Safety & Security
- Figure 61. World 16-bit Automotive Microcontrollers (MCU) Production Market Share by Application (2021-2032)
- Figure 62. World 16-bit Automotive Microcontrollers (MCU) Production Value Market Share by Application (2021-2032)
- Figure 63. World 16-bit Automotive Microcontrollers (MCU) Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 64. 16-bit Automotive Microcontrollers (MCU) Industry Chain

Figure 65. 16-bit Automotive Microcontrollers (MCU) Procurement Model

Figure 66. 16-bit Automotive Microcontrollers (MCU) Sales Model

Figure 67. 16-bit Automotive Microcontrollers (MCU) Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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