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Global 8-bit Automotive Microcontrollers (MCU) Market Growth 2026-2032

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Abstracts

The global 8-bit Automotive Microcontrollers (MCU) market size is predicted to grow from US$ 1435 million in 2025 to US$ 1213 million in 2032; it is expected to grow at a CAGR of -3.5% from 2026 to 2032.

Global sales of 8-bit automotive microcontrollers (MCUs) are projected to reach 4.6 billion units by 2025, with an average selling price of approximately $319 per thousand units.

An 8-bit automotive microcontroller (MCU) is an 8-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 ADCs, PWM, and timers), achieving low power consumption, low cost, and high reliability control through a simplified instruction set. Its core function is to process sensor data in real time and drive actuators. It is widely used in vehicle body control (such as windows, wipers, and lights), powertrain systems (such as motor control), and driver assistance systems (such as tire pressure monitoring). The industry's gross profit margin is approximately 40%-50%.

Upstream: Includes raw material suppliers such as silicon wafers and photoresists, as well as suppliers of lithography machines and testing equipment; Midstream: MCU design companies manufacture through IDM or fabless models; automotive-grade MCUs must pass AEC-Q100 and functional safety certifications; Downstream: Used in powertrain systems, chassis control, body electronics, and smart cockpits, with automakers and Tier 1 suppliers as core customers.

Market drivers mainly include the following:

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Accelerated demand upgrades due to automotive intelligence and electrification; Scenarios such as smart cockpits and autonomous driving require the deployment of more sensors and actuators, driving up the usage of MCUs. For example, Level 3 autonomous driving requires the integration of 20-30 MCUs, 3-5 times more than traditional gasoline vehicles. Simultaneously, the demand for high-precision ADCs and low-power MCUs in electric vehicle battery management systems (BMS) is surging, making 8-bit MCUs the preferred choice for entry-level models due to their cost advantage.

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 have prompted 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 ChipON Microelectronics and BYD Semiconductor have already achieved mass production for pre-installed applications, breaking the international monopoly.

Functional safety and low-power requirements spur technological iteration. Automotive electronics have stringent reliability requirements, needing to operate stably for over 15 years in environments ranging from -40? to 150?. 8-bit MCUs improve 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, meeting the needs of new energy vehicles and intelligent connected vehicles. In addition, some manufacturers have reduced their R&D costs by leveraging the RISC-V open-source ecosystem, further promoting the application of 8-bit MCUs in the automotive field.

LP Information, Inc. (LPI) ' newest research report, the ?8-bit Automotive Microcontrollers (MCU) Industry Forecast? looks at past sales and reviews total world 8-bit Automotive Microcontrollers (MCU) sales in 2025, providing a comprehensive analysis by region and market sector of projected 8-bit Automotive Microcontrollers (MCU) sales for 2026 through 2032. With 8-bit Automotive Microcontrollers (MCU) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 8-bit Automotive Microcontrollers (MCU) industry.

This Insight Report provides a comprehensive analysis of the global 8-bit Automotive Microcontrollers (MCU) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and

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M&A activity. This report also analyzes the strategies of leading global companies with a focus on 8-bit Automotive Microcontrollers (MCU) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global 8-bit Automotive Microcontrollers (MCU) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 8-bit Automotive Microcontrollers (MCU) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 8-bit Automotive Microcontrollers (MCU).

This report presents a comprehensive overview, market shares, and growth opportunities of 8-bit Automotive Microcontrollers (MCU) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vehicle To Vehicle (V2V) Connectivity

Vehicle To Infrastructure (V2I) Connectivity

Vehicle To Cloud (V2C) Connectivity

Segmentation by Technology:

Basic Control Type

Functional Safety Type

Segmentation by Functional Category:

Power Domain MCU

Chassis Domain MCU

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Segmentation by Application:

- Powertrain and Chassis
- Body Electronics
- Safety and Security Systems
- Infotainment and Telematics
- Other

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India

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- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

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

- Infineon Technologies
- NXP Semiconductors
- Renesas Electronics
- Microchip Technology

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STMicroelectronics

Texas Instruments

Analog Devices

Silicon Laboratories

Toshiba

Giga Device Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global 8-bit Automotive Microcontrollers (MCU) market?

What factors are driving 8-bit Automotive Microcontrollers (MCU) market growth, globally and by region?

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

How do 8-bit Automotive Microcontrollers (MCU) market opportunities vary by end market size?

How does 8-bit Automotive Microcontrollers (MCU) break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global 8-bit Automotive Microcontrollers (MCU) Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for 8-bit Automotive Microcontrollers (MCU) by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for 8-bit Automotive Microcontrollers (MCU) by Country/Region, 2021, 2025 & 2032
2.2 8-bit Automotive Microcontrollers (MCU) Segment by Type
  2.2.1 Vehicle To Vehicle (V2V) Connectivity
  2.2.2 Vehicle To Infrastructure (V2I) Connectivity
  2.2.3 Vehicle To Cloud (V2C) Connectivity
  2.2.4 8-bit Automotive Microcontrollers (MCU) Sales by Type
    2.2.4.1 Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Type (2021-2026)
    2.2.4.2 Global 8-bit Automotive Microcontrollers (MCU) Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Type (2021-2026)
2.3 8-bit Automotive Microcontrollers (MCU) Segment by Technology
  2.3.1 Basic Control Type
  2.3.2 Functional Safety Type
  2.3.3 8-bit Automotive Microcontrollers (MCU) Sales by Technology
    2.3.3.1 Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Technology (2021-2026)
    2.3.3.2 Global 8-bit Automotive Microcontrollers (MCU) Revenue and Market Share

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by Technology (2021-2026)
2.3.3.3 Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Technology (2021-2026)
2.4 8-bit Automotive Microcontrollers (MCU) Segment by Functional Category
2.4.1 Power Domain MCU
2.4.2 Chassis Domain MCU
2.4.3 8-bit Automotive Microcontrollers (MCU) Sales by Functional Category
2.4.3.1 Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Functional Category (2021-2026)
2.4.3.2 Global 8-bit Automotive Microcontrollers (MCU) Revenue and Market Share by Functional Category (2021-2026)
2.4.3.3 Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Functional Category (2021-2026)
2.5 8-bit Automotive Microcontrollers (MCU) Segment by Application
2.5.1 Powertrain and Chassis
2.5.2 Body Electronics
2.5.3 Safety and Security Systems
2.5.4 Infotainment and Telematics
2.5.5 Other
2.5.6 8-bit Automotive Microcontrollers (MCU) Sales by Application
2.5.6.1 Global 8-bit Automotive Microcontrollers (MCU) Sale Market Share by Application (2021-2026)
2.5.6.2 Global 8-bit Automotive Microcontrollers (MCU) Revenue and Market Share by Application (2021-2026)
2.5.6.3 Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 8-bit Automotive Microcontrollers (MCU) Breakdown Data by Company
3.1.1 Global 8-bit Automotive Microcontrollers (MCU) Annual Sales by Company (2021-2026)
3.1.2 Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Company (2021-2026)
3.2 Global 8-bit Automotive Microcontrollers (MCU) Annual Revenue by Company (2021-2026)
3.2.1 Global 8-bit Automotive Microcontrollers (MCU) Revenue by Company (2021-2026)
3.2.2 Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by

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Company (2021-2026)
3.3 Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Company
3.4 Key Manufacturers 8-bit Automotive Microcontrollers (MCU) Producing Area Distribution, Sales Area, Product Type
  3.4.1 Key Manufacturers 8-bit Automotive Microcontrollers (MCU) Product Location Distribution
  3.4.2 Players 8-bit Automotive Microcontrollers (MCU) Products Offered
3.5 Market Concentration Rate Analysis
  3.5.1 Competition Landscape Analysis
  3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 8-BIT AUTOMOTIVE MICROCONTROLLERS (MCU) BY GEOGRAPHIC REGION

4.1 World Historic 8-bit Automotive Microcontrollers (MCU) Market Size by Geographic Region (2021-2026)
  4.1.1 Global 8-bit Automotive Microcontrollers (MCU) Annual Sales by Geographic Region (2021-2026)
  4.1.2 Global 8-bit Automotive Microcontrollers (MCU) Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic 8-bit Automotive Microcontrollers (MCU) Market Size by Country/Region (2021-2026)
  4.2.1 Global 8-bit Automotive Microcontrollers (MCU) Annual Sales by Country/Region (2021-2026)
  4.2.2 Global 8-bit Automotive Microcontrollers (MCU) Annual Revenue by Country/Region (2021-2026)
4.3 Americas 8-bit Automotive Microcontrollers (MCU) Sales Growth
4.4 APAC 8-bit Automotive Microcontrollers (MCU) Sales Growth
4.5 Europe 8-bit Automotive Microcontrollers (MCU) Sales Growth
4.6 Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales Growth

5 AMERICAS

5.1 Americas 8-bit Automotive Microcontrollers (MCU) Sales by Country
  5.1.1 Americas 8-bit Automotive Microcontrollers (MCU) Sales by Country (2021-2026)
  5.1.2 Americas 8-bit Automotive Microcontrollers (MCU) Revenue by Country (2021-2026)

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5.2 Americas 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026)
5.3 Americas 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC 8-bit Automotive Microcontrollers (MCU) Sales by Region
  6.1.1 APAC 8-bit Automotive Microcontrollers (MCU) Sales by Region (2021-2026)
  6.1.2 APAC 8-bit Automotive Microcontrollers (MCU) Revenue by Region (2021-2026)
6.2 APAC 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026)
6.3 APAC 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe 8-bit Automotive Microcontrollers (MCU) by Country
  7.1.1 Europe 8-bit Automotive Microcontrollers (MCU) Sales by Country (2021-2026)
  7.1.2 Europe 8-bit Automotive Microcontrollers (MCU) Revenue by Country (2021-2026)
7.2 Europe 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026)
7.3 Europe 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa 8-bit Automotive Microcontrollers (MCU) by Country

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8.1.1 Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales by Country (2021-2026)
8.1.2 Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Revenue by Country (2021-2026)
8.2 Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026)
8.3 Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of 8-bit Automotive Microcontrollers (MCU)
10.3 Manufacturing Process Analysis of 8-bit Automotive Microcontrollers (MCU)
10.4 Industry Chain Structure of 8-bit Automotive Microcontrollers (MCU)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 8-bit Automotive Microcontrollers (MCU) Distributors
11.3 8-bit Automotive Microcontrollers (MCU) Customer

12 WORLD FORECAST REVIEW FOR 8-BIT AUTOMOTIVE MICROCONTROLLERS (MCU) BY GEOGRAPHIC REGION

12.1 Global 8-bit Automotive Microcontrollers (MCU) Market Size Forecast by Region

+357 96 030922
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12.1.1 Global 8-bit Automotive Microcontrollers (MCU) Forecast by Region (2027-2032)
12.1.2 Global 8-bit Automotive Microcontrollers (MCU) Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global 8-bit Automotive Microcontrollers (MCU) Forecast by Type (2027-2032)
12.7 Global 8-bit Automotive Microcontrollers (MCU) Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Infineon Technologies
13.1.1 Infineon Technologies Company Information
13.1.2 Infineon Technologies 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.1.3 Infineon Technologies 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Infineon Technologies Main Business Overview
13.1.5 Infineon Technologies Latest Developments
13.2 NXP Semiconductors
13.2.1 NXP Semiconductors Company Information
13.2.2 NXP Semiconductors 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.2.3 NXP Semiconductors 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 NXP Semiconductors Main Business Overview
13.2.5 NXP Semiconductors Latest Developments
13.3 Renesas Electronics
13.3.1 Renesas Electronics Company Information
13.3.2 Renesas Electronics 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.3.3 Renesas Electronics 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Renesas Electronics Main Business Overview
13.3.5 Renesas Electronics Latest Developments
13.4 Microchip Technology

+357 96 030922
info@marketpublishers.com

13.4.1 Microchip Technology Company Information
13.4.2 Microchip Technology 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.4.3 Microchip Technology 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Microchip Technology Main Business Overview
13.4.5 Microchip Technology Latest Developments
13.5 STMicroelectronics
13.5.1 STMicroelectronics Company Information
13.5.2 STMicroelectronics 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.5.3 STMicroelectronics 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 STMicroelectronics Main Business Overview
13.5.5 STMicroelectronics Latest Developments
13.6 Texas Instruments
13.6.1 Texas Instruments Company Information
13.6.2 Texas Instruments 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.6.3 Texas Instruments 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Texas Instruments Main Business Overview
13.6.5 Texas Instruments Latest Developments
13.7 Analog Devices
13.7.1 Analog Devices Company Information
13.7.2 Analog Devices 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.7.3 Analog Devices 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Analog Devices Main Business Overview
13.7.5 Analog Devices Latest Developments
13.8 Silicon Laboratories
13.8.1 Silicon Laboratories Company Information
13.8.2 Silicon Laboratories 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.8.3 Silicon Laboratories 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Silicon Laboratories Main Business Overview
13.8.5 Silicon Laboratories Latest Developments

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13.9 Toshiba
13.9.1 Toshiba Company Information
13.9.2 Toshiba 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.9.3 Toshiba 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Toshiba Main Business Overview
13.9.5 Toshiba Latest Developments
13.10 Giga Device Semiconductor
13.10.1 Giga Device Semiconductor Company Information
13.10.2 Giga Device Semiconductor 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
13.10.3 Giga Device Semiconductor 8-bit Automotive Microcontrollers (MCU) Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Giga Device Semiconductor Main Business Overview
13.10.5 Giga Device Semiconductor Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. 8-bit Automotive Microcontrollers (MCU) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. 8-bit Automotive Microcontrollers (MCU) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Vehicle To Vehicle (V2V) Connectivity
Table 4. Major Players of Vehicle To Infrastructure (V2I) Connectivity
Table 5. Major Players of Vehicle To Cloud (V2C) Connectivity
Table 6. Global 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026) & (Million Units)
Table 7. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Type (2021-2026)
Table 8. Global 8-bit Automotive Microcontrollers (MCU) Revenue by Type (2021-2026) & ($ million)
Table 9. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Type (2021-2026)
Table 10. Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Major Players of Basic Control Type
Table 12. Major Players of Functional Safety Type
Table 13. Global 8-bit Automotive Microcontrollers (MCU) Sales by Technology (2021-2026) & (Million Units)
Table 14. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Technology (2021-2026)
Table 15. Global 8-bit Automotive Microcontrollers (MCU) Revenue by Technology (2021-2026) & ($ million)
Table 16. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Technology (2021-2026)
Table 17. Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Technology (2021-2026) & (US$/Unit)
Table 18. Major Players of Power Domain MCU
Table 19. Major Players of Chassis Domain MCU
Table 20. Global 8-bit Automotive Microcontrollers (MCU) Sales by Functional Category (2021-2026) & (Million Units)
Table 21. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Functional Category (2021-2026)

+357 96 030922
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Table 22. Global 8-bit Automotive Microcontrollers (MCU) Revenue by Functional Category (2021-2026) & ($ million)
Table 23. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Functional Category (2021-2026)
Table 24. Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Functional Category (2021-2026) & (US$/Unit)
Table 25. Global 8-bit Automotive Microcontrollers (MCU) Sale by Application (2021-2026) & (Million Units)
Table 26. Global 8-bit Automotive Microcontrollers (MCU) Sale Market Share by Application (2021-2026)
Table 27. Global 8-bit Automotive Microcontrollers (MCU) Revenue by Application (2021-2026) & ($ million)
Table 28. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Application (2021-2026)
Table 29. Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Application (2021-2026) & (US$/Unit)
Table 30. Global 8-bit Automotive Microcontrollers (MCU) Sales by Company (2021-2026) & (Million Units)
Table 31. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Company (2021-2026)
Table 32. Global 8-bit Automotive Microcontrollers (MCU) Revenue by Company (2021-2026) & ($ millions)
Table 33. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Company (2021-2026)
Table 34. Global 8-bit Automotive Microcontrollers (MCU) Sale Price by Company (2021-2026) & (US$/Unit)
Table 35. Key Manufacturers 8-bit Automotive Microcontrollers (MCU) Producing Area Distribution and Sales Area
Table 36. Players 8-bit Automotive Microcontrollers (MCU) Products Offered
Table 37. 8-bit Automotive Microcontrollers (MCU) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global 8-bit Automotive Microcontrollers (MCU) Sales by Geographic Region (2021-2026) & (Million Units)
Table 41. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share Geographic Region (2021-2026)
Table 42. Global 8-bit Automotive Microcontrollers (MCU) Revenue by Geographic Region (2021-2026) & ($ millions)

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Table 43. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global 8-bit Automotive Microcontrollers (MCU) Sales by Country/Region (2021-2026) & (Million Units)
Table 45. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Country/Region (2021-2026)
Table 46. Global 8-bit Automotive Microcontrollers (MCU) Revenue by Country/Region (2021-2026) & ($ millions)
Table 47. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas 8-bit Automotive Microcontrollers (MCU) Sales by Country (2021-2026) & (Million Units)
Table 49. Americas 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Country (2021-2026)
Table 50. Americas 8-bit Automotive Microcontrollers (MCU) Revenue by Country (2021-2026) & ($ millions)
Table 51. Americas 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026) & (Million Units)
Table 52. Americas 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026) & (Million Units)
Table 53. APAC 8-bit Automotive Microcontrollers (MCU) Sales by Region (2021-2026) & (Million Units)
Table 54. APAC 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Region (2021-2026)
Table 55. APAC 8-bit Automotive Microcontrollers (MCU) Revenue by Region (2021-2026) & ($ millions)
Table 56. APAC 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026) & (Million Units)
Table 57. APAC 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026) & (Million Units)
Table 58. Europe 8-bit Automotive Microcontrollers (MCU) Sales by Country (2021-2026) & (Million Units)
Table 59. Europe 8-bit Automotive Microcontrollers (MCU) Revenue by Country (2021-2026) & ($ millions)
Table 60. Europe 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026) & (Million Units)
Table 61. Europe 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026) & (Million Units)
Table 62. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales by

+357 96 030922
info@marketpublishers.com

Country (2021-2026) & (Million Units)
Table 63. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales by Type (2021-2026) & (Million Units)
Table 65. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales by Application (2021-2026) & (Million Units)
Table 66. Key Market Drivers & Growth Opportunities of 8-bit Automotive Microcontrollers (MCU)
Table 67. Key Market Challenges & Risks of 8-bit Automotive Microcontrollers (MCU)
Table 68. Key Industry Trends of 8-bit Automotive Microcontrollers (MCU)
Table 69. 8-bit Automotive Microcontrollers (MCU) Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. 8-bit Automotive Microcontrollers (MCU) Distributors List
Table 72. 8-bit Automotive Microcontrollers (MCU) Customer List
Table 73. Global 8-bit Automotive Microcontrollers (MCU) Sales Forecast by Region (2027-2032) & (Million Units)
Table 74. Global 8-bit Automotive Microcontrollers (MCU) Revenue Forecast by Region (2027-2032) & ($ millions)
Table 75. Americas 8-bit Automotive Microcontrollers (MCU) Sales Forecast by Country (2027-2032) & (Million Units)
Table 76. Americas 8-bit Automotive Microcontrollers (MCU) Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 77. APAC 8-bit Automotive Microcontrollers (MCU) Sales Forecast by Region (2027-2032) & (Million Units)
Table 78. APAC 8-bit Automotive Microcontrollers (MCU) Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 79. Europe 8-bit Automotive Microcontrollers (MCU) Sales Forecast by Country (2027-2032) & (Million Units)
Table 80. Europe 8-bit Automotive Microcontrollers (MCU) Revenue Forecast by Country (2027-2032) & ($ millions)
Table 81. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales Forecast by Country (2027-2032) & (Million Units)
Table 82. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Global 8-bit Automotive Microcontrollers (MCU) Sales Forecast by Type (2027-2032) & (Million Units)
Table 84. Global 8-bit Automotive Microcontrollers (MCU) Revenue Forecast by Type (2027-2032) & ($ millions)

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Table 85. Global 8-bit Automotive Microcontrollers (MCU) Sales Forecast by Application (2027-2032) & (Million Units)
Table 86. Global 8-bit Automotive Microcontrollers (MCU) Revenue Forecast by Application (2027-2032) & ($ millions)
Table 87. Infineon Technologies Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 88. Infineon Technologies 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 89. Infineon Technologies 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 90. Infineon Technologies Main Business
Table 91. Infineon Technologies Latest Developments
Table 92. NXP Semiconductors Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 93. NXP Semiconductors 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 94. NXP Semiconductors 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 95. NXP Semiconductors Main Business
Table 96. NXP Semiconductors Latest Developments
Table 97. Renesas Electronics Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 98. Renesas Electronics 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 99. Renesas Electronics 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 100. Renesas Electronics Main Business
Table 101. Renesas Electronics Latest Developments
Table 102. Microchip Technology Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 103. Microchip Technology 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 104. Microchip Technology 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. Microchip Technology Main Business
Table 106. Microchip Technology Latest Developments
Table 107. STMicroelectronics Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 108. STMicroelectronics 8-bit Automotive Microcontrollers (MCU) Product

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Portfolios and Specifications
Table 109. STMicroelectronics 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. STMicroelectronics Main Business
Table 111. STMicroelectronics Latest Developments
Table 112. Texas Instruments Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 113. Texas Instruments 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 114. Texas Instruments 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. Texas Instruments Main Business
Table 116. Texas Instruments Latest Developments
Table 117. Analog Devices Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 118. Analog Devices 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 119. Analog Devices 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. Analog Devices Main Business
Table 121. Analog Devices Latest Developments
Table 122. Silicon Laboratories Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 123. Silicon Laboratories 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 124. Silicon Laboratories 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 125. Silicon Laboratories Main Business
Table 126. Silicon Laboratories Latest Developments
Table 127. Toshiba Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors
Table 128. Toshiba 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 129. Toshiba 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 130. Toshiba Main Business
Table 131. Toshiba Latest Developments
Table 132. Giga Device Semiconductor Basic Information, 8-bit Automotive Microcontrollers (MCU) Manufacturing Base, Sales Area and Its Competitors

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Table 133. Giga Device Semiconductor 8-bit Automotive Microcontrollers (MCU) Product Portfolios and Specifications
Table 134. Giga Device Semiconductor 8-bit Automotive Microcontrollers (MCU) Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 135. Giga Device Semiconductor Main Business
Table 136. Giga Device Semiconductor Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of 8-bit Automotive Microcontrollers (MCU)
Figure 2. 8-bit Automotive Microcontrollers (MCU) Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global 8-bit Automotive Microcontrollers (MCU) Sales Growth Rate 2021-2032 (Million Units)
Figure 7. Global 8-bit Automotive Microcontrollers (MCU) Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. 8-bit Automotive Microcontrollers (MCU) Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Country/Region (2025)
Figure 10. 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Vehicle To Vehicle (V2V) Connectivity
Figure 12. Product Picture of Vehicle To Infrastructure (V2I) Connectivity
Figure 13. Product Picture of Vehicle To Cloud (V2C) Connectivity
Figure 14. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Type in 2026
Figure 15. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Basic Control Type
Figure 17. Product Picture of Functional Safety Type
Figure 18. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Technology in 2026
Figure 19. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Technology (2021-2026)
Figure 20. Product Picture of Power Domain MCU
Figure 21. Product Picture of Chassis Domain MCU
Figure 22. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Functional Category in 2026
Figure 23. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Functional Category (2021-2026)
Figure 24. 8-bit Automotive Microcontrollers (MCU) Consumed in Powertrain and

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Chassis
Figure 25. Global 8-bit Automotive Microcontrollers (MCU) Market: Powertrain and Chassis (2021-2026) & (Million Units)
Figure 26. 8-bit Automotive Microcontrollers (MCU) Consumed in Body Electronics
Figure 27. Global 8-bit Automotive Microcontrollers (MCU) Market: Body Electronics (2021-2026) & (Million Units)
Figure 28. 8-bit Automotive Microcontrollers (MCU) Consumed in Safety and Security Systems
Figure 29. Global 8-bit Automotive Microcontrollers (MCU) Market: Safety and Security Systems (2021-2026) & (Million Units)
Figure 30. 8-bit Automotive Microcontrollers (MCU) Consumed in Infotainment and Telematics
Figure 31. Global 8-bit Automotive Microcontrollers (MCU) Market: Infotainment and Telematics (2021-2026) & (Million Units)
Figure 32. 8-bit Automotive Microcontrollers (MCU) Consumed in Other
Figure 33. Global 8-bit Automotive Microcontrollers (MCU) Market: Other (2021-2026) & (Million Units)
Figure 34. Global 8-bit Automotive Microcontrollers (MCU) Sale Market Share by Application (2025)
Figure 35. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Application in 2026
Figure 36. 8-bit Automotive Microcontrollers (MCU) Sales by Company in 2026 (Million Units)
Figure 37. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Company in 2026
Figure 38. 8-bit Automotive Microcontrollers (MCU) Revenue by Company in 2026 ($ millions)
Figure 39. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Company in 2026
Figure 40. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Geographic Region (2021-2026)
Figure 41. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Geographic Region in 2026
Figure 42. Americas 8-bit Automotive Microcontrollers (MCU) Sales 2021-2026 (Million Units)
Figure 43. Americas 8-bit Automotive Microcontrollers (MCU) Revenue 2021-2026 ($ millions)
Figure 44. APAC 8-bit Automotive Microcontrollers (MCU) Sales 2021-2026 (Million Units)

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Figure 45. APAC 8-bit Automotive Microcontrollers (MCU) Revenue 2021-2026 ($ millions)
Figure 46. Europe 8-bit Automotive Microcontrollers (MCU) Sales 2021-2026 (Million Units)
Figure 47. Europe 8-bit Automotive Microcontrollers (MCU) Revenue 2021-2026 ($ millions)
Figure 48. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales 2021-2026 (Million Units)
Figure 49. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Revenue 2021-2026 ($ millions)
Figure 50. Americas 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Country in 2026
Figure 51. Americas 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Country (2021-2026)
Figure 52. Americas 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Type (2021-2026)
Figure 53. Americas 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Application (2021-2026)
Figure 54. United States 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 55. Canada 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 56. Mexico 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 57. Brazil 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 58. APAC 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Region in 2026
Figure 59. APAC 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Region (2021-2026)
Figure 60. APAC 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Type (2021-2026)
Figure 61. APAC 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Application (2021-2026)
Figure 62. China 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 63. Japan 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 64. South Korea 8-bit Automotive Microcontrollers (MCU) Revenue Growth

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2021-2026 ($ millions)
Figure 65. Southeast Asia 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 66. India 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 67. Australia 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 68. China Taiwan 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 69. Europe 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Country in 2026
Figure 70. Europe 8-bit Automotive Microcontrollers (MCU) Revenue Market Share by Country (2021-2026)
Figure 71. Europe 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Type (2021-2026)
Figure 72. Europe 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Application (2021-2026)
Figure 73. Germany 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 74. France 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 75. UK 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 76. Italy 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 77. Russia 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 78. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Country (2021-2026)
Figure 79. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Type (2021-2026)
Figure 80. Middle East & Africa 8-bit Automotive Microcontrollers (MCU) Sales Market Share by Application (2021-2026)
Figure 81. Egypt 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 82. South Africa 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 83. Israel 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)

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Figure 84. Turkey 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 85. GCC Countries 8-bit Automotive Microcontrollers (MCU) Revenue Growth 2021-2026 ($ millions)
Figure 86. Manufacturing Cost Structure Analysis of 8-bit Automotive Microcontrollers (MCU) in 2026
Figure 87. Manufacturing Process Analysis of 8-bit Automotive Microcontrollers (MCU)
Figure 88. Industry Chain Structure of 8-bit Automotive Microcontrollers (MCU)
Figure 89. Channels of Distribution
Figure 90. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Forecast by Region (2027-2032)
Figure 91. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share Forecast by Region (2027-2032)
Figure 92. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share Forecast by Type (2027-2032)
Figure 93. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share Forecast by Type (2027-2032)
Figure 94. Global 8-bit Automotive Microcontrollers (MCU) Sales Market Share Forecast by Application (2027-2032)
Figure 95. Global 8-bit Automotive Microcontrollers (MCU) Revenue Market Share Forecast by Application (2027-2032)

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