

Global Automotive Cockpit Microcontroller (MCU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/A8EB8CC7927AEN.html>

Date: January 2026

Pages: 102

Price: US\$ 3,480.00 (Single User License)

ID: A8EB8CC7927AEN

Abstracts

According to our (Global Info Research) latest study, the global Automotive Cockpit Microcontroller (MCU) market size was valued at US\$ 1988 million in 2025 and is forecast to a readjusted size of US\$ 3374 million by 2032 with a CAGR of 7.8% during review period.

Automotive Cockpit Microcontroller (MCU) is a dedicated automotive-grade controller used to manage vehicle cockpit functions, integrating processing, sensing, and control capabilities to support instrument clusters, infotainment systems, climate control, and human-machine interaction with high reliability and low power consumption. In 2025, production was approximately 3.22 billion units and the average price was USD 0.6 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 45%. Upstream, key inputs include silicon wafers, photoresists, lithography machines, and etching tools, with representative suppliers such as ASML, Tokyo Electron, and Applied Materials providing essential semiconductor materials and equipment. The midstream segment includes system architecture design, embedded processor development, software and firmware integration, functional safety implementation, and chip verification, which determine computing efficiency, power performance, and automotive-grade reliability. Downstream, Automotive Cockpit Microcontroller (MCU) is widely used in passenger cars and commercial vehicles by manufacturers such as Toyota, Volkswagen, BMW, Mercedes-Benz, Ford, General Motors, BYD, SAIC Motor, and GAC Group.

This report is a detailed and comprehensive analysis for global Automotive Cockpit Microcontroller (MCU) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Cockpit Microcontroller (MCU) market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Cockpit Microcontroller (MCU) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Cockpit Microcontroller (MCU) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Cockpit Microcontroller (MCU) market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Automotive Cockpit Microcontroller (MCU)
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Cockpit Microcontroller (MCU) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Microchip Technology, STMicroelectronics, Texas Instruments, Analog Devices, Silicon Laboratories, Toshiba, etc.

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

Market Segmentation

Automotive Cockpit Microcontroller (MCU) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

8-Bit Microcontrollers

16-Bit Microcontrollers

32-Bit Microcontrollers

Market segment by Architecture

ARM Cortex-M Series

ARM Cortex-R Series

ARM Cortex-A Series

Others

Market segment by Grade

ISO 26262 ASIL-B

ISO 26262 ASIL-A

Others

Market segment by Operating Frequency

Operating Frequency

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 8-Bit Microcontrollers

1.3.3 16-Bit Microcontrollers

1.3.4 32-Bit Microcontrollers

1.4 Market Analysis by Architecture

1.4.1 Overview: Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Architecture: 2021 Versus 2025 Versus 2032

1.4.2 ARM Cortex-M Series

1.4.3 ARM Cortex-R Series

1.4.4 ARM Cortex-A Series

1.4.5 Others

1.5 Market Analysis by Grade

1.5.1 Overview: Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.5.2 ISO 26262 ASIL-B

1.5.3 ISO 26262 ASIL-A

1.5.4 Others

1.6 Market Analysis by Operating Frequency

1.6.1 Overview: Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Operating Frequency: 2021 Versus 2025 Versus 2032

1.6.2 Operating Frequency

List Of Tables

LIST OF TABLES

Table 1. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Architecture, (USD Million), 2021 & 2025 & 2032

Table 3. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 4. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Operating Frequency, (USD Million), 2021 & 2025 & 2032

Table 5. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 7. Microchip Technology Major Business

Table 8. Microchip Technology Automotive Cockpit Microcontroller (MCU) Product and Services

Table 9. Microchip Technology Automotive Cockpit Microcontroller (MCU) Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Microchip Technology Recent Developments/Updates

Table 11. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 12. STMicroelectronics Major Business

Table 13. STMicroelectronics Automotive Cockpit Microcontroller (MCU) Product and Services

Table 14. STMicroelectronics Automotive Cockpit Microcontroller (MCU) Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. STMicroelectronics Recent Developments/Updates

Table 16. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 17. Texas Instruments Major Business

Table 18. Texas Instruments Automotive Cockpit Microcontroller (MCU) Product and Services

Table 19. Texas Instruments Automotive Cockpit Microcontroller (MCU) Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Texas Instruments Recent Developments/Updates

Table 21. Analog Devices Basic Information, Manufacturing Base and Competitors

- Table 22. Analog Devices Major Business
- Table 23. Analog Devices Automotive Cockpit Microcontroller (MCU) Product and Services
- Table 24. Analog Devices Automotive Cockpit Microcontroller (MCU) Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 25. Analog Devices Recent Developments/Updates
- Table 26. Silicon Laboratories Basic Information, Manufacturing Base and Competitors
- Table 27. Silicon Laboratories Major Business
- Table 28. Silicon Laboratories Automotive Cockpit Microcontroller (MCU) Product and Services
- Table 29. Silicon Laboratories Automotive Cockpit Microcontroller (MCU) Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 30. Silicon Laboratories Recent Developments/Updates
- Table 31. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 32. Toshiba Major Business
- Table 33. Toshiba Automotive Cockpit Microcontroller (MCU) Product and Services
- Table 34. Toshiba Automotive Cockpit Microcontroller (MCU) Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 35. Toshiba Recent Developments/Updates
- Table 36. Global Automotive Cockpit Microcontroller (MCU) Sales Quantity by Manufacturer (2021-2026) & (Million Units)
- Table 37. Global Automotive Cockpit Microcontroller (MCU) Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 38. Global Automotive Cockpit Microcontroller (MCU) Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 39. Market Position of Manufacturers in Automotive Cockpit Microcontroller (MCU), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 40. Head Office and Automotive Cockpit Microcontroller (MCU) Production Site of Key Manufacturer
- Table 41. Automotive Cockpit Microcontroller (MCU) Market: Company Product Type Footprint
- Table 42. Automotive Cockpit Microcontroller (MCU) Market: Company Product Application Footprint
- Table 43. Automotive Cockpit Microcontroller (MCU) New Market Entrants and Barriers to Market Entry
- Table 44. Automotive Cockpit Microcontroller (MCU) Mergers, Acquisition, Agreements,

and Collaborations

Table 45. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 46. Global Automotive Cockpit Microcontroller (MCU) Sales Quantity by Region (2021-2026) & (Million Units)

Table 47. Global Automotive Cockpit Microcontroller (MCU) Sales Quantity by Region (2027-2032) & (Million Units)

Table 48. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Region (2021-2026) & (USD Million)

Table 49. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Region (2027-2032) & (USD Million)

Table 50. Global Automotive Cockpit Microcontroller (MCU) Average Price by Region (2021-2026) & (US\$/Unit)

Table 51. Global Automotive Cockpit Microcontroller (MCU) Average Price by Region (2027-2032) & (US\$/Unit)

Table 52. Global Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2021-2026) & (Million Units)

Table 53. Global Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2027-2032) & (Million Units)

Table 54. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Type (2021-2026) & (USD Million)

Table 55. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Type (2027-2032) & (USD Million)

Table 56. Global Automotive Cockpit Microcontroller (MCU) Average Price by Type (2021-2026) & (US\$/Unit)

Table 57. Global Automotive Cockpit Microcontroller (MCU) Average Price by Type (2027-2032) & (US\$/Unit)

Table 58. Global Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2021-2026) & (Million Units)

Table 59. Global Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2027-2032) & (Million Units)

Table 60. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Application (2021-2026) & (USD Million)

Table 61. Global Automotive Cockpit Microcontroller (MCU) Consumption Value by Application (2027-2032) & (USD Million)

Table 62. Global Automotive Cockpit Microcontroller (MCU) Average Price by Application (2021-2026) & (US\$/Unit)

Table 63. Global Automotive Cockpit Microcontroller (MCU) Average Price by Application (2027-2032) & (US\$/Unit)

Table 64. North America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2021-2026) & (Million Units)

Table 65. North America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2027-2032) & (Million Units)

Table 66. North America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2021-2026) & (Million Units)

Table 67. North America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2027-2032) & (Million Units)

Table 68. North America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2021-2026) & (Million Units)

Table 69. North America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2027-2032) & (Million Units)

Table 70. North America Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2021-2026) & (USD Million)

Table 71. North America Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2027-2032) & (USD Million)

Table 72. Europe Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2021-2026) & (Million Units)

Table 73. Europe Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2027-2032) & (Million Units)

Table 74. Europe Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2021-2026) & (Million Units)

Table 75. Europe Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2027-2032) & (Million Units)

Table 76. Europe Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2021-2026) & (Million Units)

Table 77. Europe Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2027-2032) & (Million Units)

Table 78. Europe Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2021-2026) & (USD Million)

Table 79. Europe Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2027-2032) & (USD Million)

Table 80. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2021-2026) & (Million Units)

Table 81. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2027-2032) & (Million Units)

Table 82. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2021-2026) & (Million Units)

Table 83. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Sales Quantity by

Application (2027-2032) & (Million Units)

Table 84. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Sales Quantity by Region (2021-2026) & (Million Units)

Table 85. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Sales Quantity by Region (2027-2032) & (Million Units)

Table 86. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Consumption Value by Region (2021-2026) & (USD Million)

Table 87. Asia-Pacific Automotive Cockpit Microcontroller (MCU) Consumption Value by Region (2027-2032) & (USD Million)

Table 88. South America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2021-2026) & (Million Units)

Table 89. South America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2027-2032) & (Million Units)

Table 90. South America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2021-2026) & (Million Units)

Table 91. South America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2027-2032) & (Million Units)

Table 92. South America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2021-2026) & (Million Units)

Table 93. South America Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2027-2032) & (Million Units)

Table 94. South America Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2021-2026) & (USD Million)

Table 95. South America Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2027-2032) & (USD Million)

Table 96. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2021-2026) & (Million Units)

Table 97. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Sales Quantity by Type (2027-2032) & (Million Units)

Table 98. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2021-2026) & (Million Units)

Table 99. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Sales Quantity by Application (2027-2032) & (Million Units)

Table 100. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2021-2026) & (Million Units)

Table 101. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Sales Quantity by Country (2027-2032) & (Million Units)

Table 102. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2021-2026) & (USD Million)

Table 103. Middle East & Africa Automotive Cockpit Microcontroller (MCU) Consumption Value by Country (2027-2032) & (USD Million)

Table 104. Automotive Cockpit Microcontroller (MCU) Raw Material

Table 105. Key Manufacturers of Automotive Cockpit Microcontroller (MCU) Raw Materials

Table 106. Automotive Cockpit Microcontroller (MCU) Typical Distributors

Table 107. Automotive Cockpit Microcontroller (MCU) Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Cockpit Microcontroller (MCU) Picture

Figure 2. Global Automotive Cockpit Microcontroller (MCU) Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Automotive Cockpit Microcontroller (MCU) Revenue Market Share by Type in 2025

Figure 4. 8-Bit Microcontrollers Examples

Figure 5. 16-Bit Microcontrollers Examples

Figure 6. 32-Bit Microcontrollers Examples

Figure 7. Global Automotive Cockpit Microcontroller (MCU) Revenue by Architecture, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Automotive Cockpit Microcontroller (MCU) Revenue Market Share by Architecture in 2025

Figure 9. ARM Cortex-M Series Examples

Figure 10. ARM Cortex-R Series Examples

Figure 11. ARM Cortex-A Series Examples

Figure 12. Others Examples

Figure 13. Global Automotive Cockpit Microcontroller (MCU) Revenue by Grade, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Automotive Cockpit Microcontroller (MCU) Revenue Market Share by Grade in 2025

Figure 15. ISO 26262 ASIL-B Examples

Figure 16. ISO 26262 ASIL-A Examples

Figure 17. Others Examples

Figure 18. Global Automotive Cockpit Microcontroller (MCU) Revenue by Operating Frequency, (USD Million), 2021 & 2025 & 2032

Figure 19. Global Automotive Cockpit Microcontroller (MCU) Revenue Market Share by Operating Frequency in 2025

Figure 20. Operating Frequency

I would like to order

Product name: Global Automotive Cockpit Microcontroller (MCU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/A8EB8CC7927AEN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A8EB8CC7927AEN.html>