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Global 16-bit Automotive Microcontrollers (MCU) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global 16-bit Automotive Microcontrollers (MCU) market size was valued at USD 3807.1 million in 2022 and is forecast to a readjusted size of USD 6460.5 million by 2029 with a CAGR of 7.8% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

The 16-bit automotive microcontroller is a microcontroller chip specially designed for automotive electronic systems, and its core component is a 16-bit central processing unit (CPU). It is a further upgrade of the 8-bit automotive microcontroller, which has higher computing speed and more storage capacity, and can meet more complex and advanced automotive electronic system control requirements. The 16-bit automotive microcontroller is characterized by low power consumption, strong anti-electromagnetic interference capability, stable and reliable performance, better scalability and more peripheral interfaces, and can support more functions and more complex algorithms.

This report is a detailed and comprehensive analysis for global 16-bit Automotive Microcontrollers (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 2023, are provided.

Key Features:

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Global 16-bit Automotive Microcontrollers (MCU) market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2018-2029

Global 16-bit Automotive Microcontrollers (MCU) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2018-2029

Global 16-bit Automotive Microcontrollers (MCU) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2018-2029

Global 16-bit Automotive Microcontrollers (MCU) market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2018-2023

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 16-bit Automotive Microcontrollers (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 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 STMicroelectronics NV, Infineon Technologies AG, Renesas Electronics Corporation, Microchip Technology Inc. and NXP Semiconductors NV, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

16-bit Automotive Microcontrollers (MCU) market is split by Type and by Application.

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For the period 2018-2029, 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

- Vehicle To Vehicle (V2V) Connectivity
- Vehicle To Infrastructure (V2I) Connectivity
- Vehicle To Cloud (V2C) Connectivity

Market segment by Application

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

Major players covered

- STMicroelectronics NV
- Infineon Technologies AG
- Renesas Electronics Corporation
- Microchip Technology Inc.
- NXP Semiconductors NV

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Texas Instruments Incorporated

Toshiba Corporation

ROHM Semiconductor

Analog Devices Inc.

ON Semiconductor

Cypress Semiconductor Corp

Fujitsu Limited

Panasonic Corporation

Saankhya Labs

ASM Technologies

Broadcom Inc

CDIL

MosChip Semiconductor Technologies

HiSilicon

Will Semiconductor

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 16-bit Automotive Microcontrollers (MCU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 16-bit Automotive Microcontrollers (MCU), with price, sales, revenue and global market share of 16-bit Automotive Microcontrollers (MCU) from 2018 to 2023.

Chapter 3, the 16-bit Automotive Microcontrollers (MCU) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 16-bit Automotive Microcontrollers (MCU) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022.and 16-bit Automotive Microcontrollers (MCU) market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of 16-bit Automotive Microcontrollers (MCU).

Chapter 14 and 15, to describe 16-bit Automotive Microcontrollers (MCU) sales channel, distributors, customers, research findings and conclusion.

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3 COMPETITIVE ENVIRONMENT: 16-BIT AUTOMOTIVE MICROCONTROLLERS (MCU) BY MANUFACTURER

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