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Global USB Specific MCU Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GA72E594FDD0EN.html
Date: August 2026
Pages: 110
Price: US$ 3,480.00 (Single User License)
ID: GA72E594FDD0EN

Abstracts

According to our (Global Info Research) latest study, the global USB Specific MCU market size was valued at US$ 232 million in 2025 and is forecast to a readjusted size of US$ 363 million by 2032 with a CAGR of 6.5% during review period.

In 2025, the global volume of USB-dedicated MCUs reached 15 million units, with an average selling price of $15 per unit.

USB-dedicated MCUs are microcontrollers that incorporate a built-in USB controller, transceiver (PHY), and relevant protocol stacks. Designed specifically to handle USB data transmission and communication, they are widely used in devices such as PC peripherals, USB interface converters (e.g., USB-to-Serial/I2C/SPI), game controllers, and security dongles. These MCUs are specialized integrated circuits that consolidate USB interface control functions; their core capabilities include: USB protocol handling (supporting standards such as USB 1.1, 2.0, 3.0, 3.1, and 4.0 to facilitate data transfers like control, bulk, interrupt, and isochronous transfers); interface integration (combining the CPU, memory, USB physical layer [PHY], and Serial Interface Engine [SIE] onto a single chip to reduce peripheral circuit complexity); low-power design (optimized for scenarios such as mobile devices and IoT nodes to extend battery life); and peripheral expansion (integrating interfaces like GPIO, ADC, DAC, SPI, and I2C to support the development of multifunctional devices).

Key market drivers include the following:

Growth in the market for USB-specific MCUs is primarily driven by expanding demand for USB peripherals and embedded terminals. Devices such as keyboards, mice, card

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readers, printers, audio equipment, industrial data collectors, small medical devices, and smart hardware all rely on USB for data transmission, power supply, and device identification. USB-specific MCUs integrate general-purpose control capabilities with USB communication interfaces, helping to reduce peripheral circuit complexity, shorten development cycles, and enhance product stability; consequently, they are widely used in small and medium-sized electronic devices.

Furthermore, the widespread adoption of Type-C interfaces and the increasing multifunctionality of end devices have driven the demand for USB control capabilities. As more devices require support for high-speed communication, firmware upgrades, power delivery negotiation, peripheral identification, and multi-mode switching, traditional, simple control chips struggle to meet the need for flexible development. USB-specific MCUs combine protocol processing, I/O control, low-power management, and security authentication, offering peripheral manufacturers highly integrated solutions. Demand for these chips continues to rise as peripherals become increasingly intelligent.

In addition, domestic substitution and the maturation of development ecosystems are fueling the expansion of the USB-specific MCU market. Small and medium-sized hardware manufacturers prioritize chip pricing, supply stability, reference designs, and software support; suppliers offering mature development tools, driver libraries, and technical services are more likely to secure customer adoption. Future competition will center on protocol compatibility, low power consumption, interference immunity, package options, software ecosystems, and mass-production consistency. Manufacturers capable of providing comprehensive solutions?ranging from the chip itself to the complete application design?will enjoy greater market stickiness.

This report is a detailed and comprehensive analysis for global USB Specific 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 USB Specific MCU market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

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Global USB Specific 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 USB Specific 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 USB Specific 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 USB Specific 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 USB Specific 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 STMicroelectronics, NXP, Infineon Technologies, TI, Rohm, GigaDevice, Nanjing Qinheng Microelectronics, National Technology, Silicon Labs, Semiconductor Manufacturing Company, etc.

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

Market Segmentation

USB Specific 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.

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Market segment by Type

Device-Specific

Host-Specific

Other

Market segment by Supply Voltage

1.8V

3.3V

5V

Market segment by Core Architecture

8-bit

16-bit

32-bit

Market segment by Application

Consumer Electronics

Industrial Control

Automotive Electronics

Other

Major players covered

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STMicroelectronics

NXP

Infineon Technologies

TI

Rohm

GigaDevice

Nanjing Qinheng Microelectronics

National Technology

Silicon Labs

Semiconductor Manufacturing Company

Holtek

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:

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Chapter 1, to describe USB Specific MCU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of USB Specific MCU, with price, sales quantity, revenue, and global market share of USB Specific MCU from 2021 to 2026.

Chapter 3, the USB Specific MCU competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the USB Specific MCU breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026.and USB Specific MCU market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of USB Specific MCU.

Chapter 14 and 15, to describe USB Specific MCU sales channel, distributors, customers, research findings and conclusion.

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