

Global USB Specific MCU Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global USB Specific MCU market size is expected to reach \$ 363 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

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 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 studies the global USB Specific MCU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for USB Specific 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 USB Specific MCU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global USB Specific MCU total production and demand, 2021-2032, (Million Units)
Global USB Specific MCU total production value, 2021-2032, (USD Million)
Global USB Specific MCU production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global USB Specific MCU consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: USB Specific MCU domestic production, consumption, key domestic manufacturers and share

Global USB Specific MCU production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global USB Specific MCU production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global USB Specific MCU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global USB Specific 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World USB Specific 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 USB Specific MCU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global USB Specific MCU Market, Segmentation by Type:

Device-Specific

Host-Specific

Other

Global USB Specific MCU Market, Segmentation by Supply Voltage:

1.8V

3.3V

5V

Global USB Specific MCU Market, Segmentation by Core Architecture:

8-bit

16-bit

32-bit

Global USB Specific MCU Market, Segmentation by Application:

Consumer Electronics

Industrial Control

Automotive Electronics

Other

Companies Profiled:

STMicroelectronics

NXP

Infineon Technologies

TI

Rohm

GigaDevice

Nanjing Qinheng Microelectronics

National Technology

Silicon Labs

Semiconductor Manufacturing Company

Holtek

Key Questions Answered:

1. How big is the global USB Specific MCU market?
2. What is the demand of the global USB Specific MCU market?

3. What is the year over year growth of the global USB Specific MCU market?
4. What is the production and production value of the global USB Specific MCU market?
5. Who are the key producers in the global USB Specific MCU market?
6. What are the growth factors driving the market demand?

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