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Global Low-Power USB-to-UART Bridge ICs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-Power USB-to-UART Bridge ICs market size is expected to reach $ 490 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Low-Power USB-to-UART Bridge ICs are interface conversion chips optimized for low-current operation, integrating USB protocol processing, UART communication logic, baud-rate generation, data buffering, power management, driver communication, and signal control to connect host systems with serial devices while reducing standby and operating power consumption. In 2025, production was 130 million units and the average price was USD 2.3 per unit. The industry?s capacity utilization rate in 2025 was about 70%, and the average gross margin was around 33%. Upstream, the key inputs mainly include silicon wafers, photoresists, electronic specialty gases, and packaging materials, with representative suppliers such as Shin-Etsu Chemical, JSR, and Air Liquide providing core semiconductor materials and process inputs. The midstream segment focuses on low-power chip architecture design, USB protocol integration, UART communication logic, baud-rate generation, signal integrity optimization, power management, driver compatibility, wafer fabrication, packaging, testing, and reliability validation, which together determine connection stability, transmission accuracy, system compatibility, power efficiency, integration level, and cost competitiveness. Downstream, Low-Power USB-to-UART Bridge ICs are mainly used in electronics manufacturing, industrial control, medical equipment, and automotive electronics, where they help development boards, test equipment, control modules, diagnostic instruments, and in-vehicle systems realize convenient serial communication through USB connectivity, with representative customers including Foxconn, Siemens, and BYD.

Low-Power USB-to-UART Bridge ICs demand will come from embedded systems

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where serial communication must remain available without adding unnecessary power burden. Portable test tools, battery-powered medical devices, industrial sensors, compact control modules, and in-vehicle diagnostic interfaces all need stable USB-to-serial conversion, but they increasingly require lower standby current and better power-state management. In electronics manufacturing, low-power designs also help reduce heat and improve board reliability during continuous testing. Product differentiation will depend on sleep and wake-up control, driver compatibility, baud-rate stability, electrostatic protection, small package size, and dependable long-cycle supply.

This report studies the global Low-Power USB-to-UART Bridge ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Power USB-to-UART Bridge ICs 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 Low-Power USB-to-UART Bridge ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-Power USB-to-UART Bridge ICs total production and demand, 2021-2032, (Million Units)
Global Low-Power USB-to-UART Bridge ICs total production value, 2021-2032, (USD Million)
Global Low-Power USB-to-UART Bridge ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Low-Power USB-to-UART Bridge ICs consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Low-Power USB-to-UART Bridge ICs domestic production, consumption, key domestic manufacturers and share
Global Low-Power USB-to-UART Bridge ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)
Global Low-Power USB-to-UART Bridge ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)
Global Low-Power USB-to-UART Bridge ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Low-Power USB-to-UART Bridge ICs

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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 FTDI (UK), Silicon Labs (USA), TI (USA), Fujitsu (Japan), Infineon (Germany), Silicon Motion (Taiwan), ASMedia Technology (Taiwan), JMicron Technology (Taiwan), WCH (China), Sage Microelectronics (China), 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 Low-Power USB-to-UART Bridge ICs 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 Low-Power USB-to-UART Bridge ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Low-Power USB-to-UART Bridge ICs Market, Segmentation by Type:

4x4 mm

5x5 mm

Others

Global Low-Power USB-to-UART Bridge ICs Market, Segmentation by Interface Standard:

USB 2.0

USB 3.0

Others

Global Low-Power USB-to-UART Bridge ICs Market, Segmentation by Package:

QFN24

QFN28

Others

Global Low-Power USB-to-UART Bridge ICs Market, Segmentation by Application:

Electronics Manufacturing

Industrial

Medical

Automotive

Others

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Companies Profiled:

FTDI (UK)

Silicon Labs (USA)

TI (USA)

Fujitsu (Japan)

Infineon (Germany)

Silicon Motion (Taiwan)

ASMedia Technology (Taiwan)

JMicron Technology (Taiwan)

WCH (China)

Sage Microelectronics (China)

Holtek (Taiwan)

MaxLinear (USA)

ASIX (Taiwan)

Microchip (USA)

Toshiba (Japan)

Key Questions Answered:
1. How big is the global Low-Power USB-to-UART Bridge ICs market?
2. What is the demand of the global Low-Power USB-to-UART Bridge ICs market?
3. What is the year over year growth of the global Low-Power USB-to-UART Bridge ICs

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market?
4. What is the production and production value of the global Low-Power USB-to-UART Bridge ICs market?
5. Who are the key producers in the global Low-Power USB-to-UART Bridge ICs market?
6. What are the growth factors driving the market demand?

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