

Global Universal Asynchronous Receiver-Transmitter (UART) ICs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Universal Asynchronous Receiver-Transmitter (UART) ICs market size is expected to reach \$ 994 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Universal Asynchronous Receiver-Transmitter (UART) ICs are integrated circuits that implement asynchronous serial communication interfaces, converting data between parallel and serial formats for transmission between digital systems. A UART IC typically includes receive and transmit control logic, shift registers, a baud rate generator, and FIFO buffers. These circuits frame data into start, data, optional parity, and stop bits, allowing systems to agree on communication parameters without a shared clock signal. Physically, UART ICs are packaged in common IC formats such as DIP, SOIC, and QFN, with dedicated TX (transmit) and RX (receive) pins for connection to host controllers. Proper implementation must manage sampling timing, buffering, error detection, and various baud rates. UART ICs are ubiquitous in embedded systems, industrial automation, automotive electronics, consumer devices, and communications equipment, used for low-cost, reliable serial data exchange between controllers and peripherals. Many modern microcontrollers integrate UART peripherals, but standalone UART ICs are still used for multi-port extensions, isolated communication links, and specialized protocol bridges.

Universal Asynchronous Receiver-Transmitter (UART) ICs are foundational interface components designed to enable asynchronous serial communication by converting parallel data streams into serial form and vice versa. As one of the earliest and most widely adopted communication mechanisms in electronic systems, UART technology is valued for its structural simplicity, protocol stability, and low implementation complexity, and it remains deeply embedded in embedded systems, industrial equipment, and communication modules. Compared with high-speed and highly integrated interfaces,

UART ICs emphasize predictability, robustness, and ease of debugging, which makes them indispensable in industrial control systems, automotive electronics, medical devices, and critical infrastructure. From an industry perspective, UART ICs represent a long-lifecycle class of foundational semiconductors whose relevance is sustained not by disruptive innovation but by their continual reintegration into evolving system architectures driven by global digitalization and automation trends. The enduring market presence of UART ICs is driven less by technological breakthroughs than by the increasing complexity of electronic systems and rising expectations for stability and maintainability. Industrial automation, automotive electronics, energy systems, and communication equipment continue to rely on UART interfaces for diagnostics, system configuration, and reliable data exchange. In an environment characterized by fluctuating semiconductor input costs and supply-chain uncertainty, the reliance of UART ICs on mature manufacturing processes and predictable yields makes them an attractive option for system designers seeking cost control and supply resilience. At the same time, UART ICs are being combined with low-power design techniques, enhanced electromagnetic compatibility, and multi-interface integration strategies, extending their functional relevance without altering their core communication logic. While highly integrated system-on-chip solutions present substitution pressure in some applications, growing emphasis on system security, controllability, and long-term operational reliability has renewed appreciation for the transparency and serviceability that discrete UART ICs provide. From a supply-chain standpoint, UART ICs depend upstream on mature semiconductor fabrication technologies, mixed-signal design expertise, and standardized packaging and testing services, resulting in a relatively stable and well-defined industrial structure. Long-term demand dynamics, however, are shaped primarily by downstream applications, where industrial equipment manufacturers, automotive Tier 1 suppliers, communication module vendors, and medical device companies constitute the most influential customer base. Leading suppliers such as NXP Semiconductors, Texas Instruments, Renesas Electronics, Microchip Technology, Diodes Incorporated, and FTDI consistently highlight serial communication products in their official portfolios, technical documentation, and annual reports, underscoring downstream customers' reliance on long-term availability, software-hardware compatibility, and engineering support. Compared with consumer electronics markets, enterprise-oriented downstream customers place greater emphasis on lifecycle management, documentation completeness, and traceability, resulting in strong customer lock-in and relatively stable commercial relationships for UART IC suppliers. In terms of application segmentation, demand for UART ICs is increasingly concentrated in scenarios that require high reliability, extended operational lifetimes, and system-level integration. In industrial automation and process control systems, UART remains a critical interface for equipment commissioning, field communication,

and redundant links. In automotive electronics, body control modules, diagnostic interfaces, and auxiliary control systems continue to depend on UART connectivity. In IoT and edge computing devices, UART is widely used for module communication, system initialization, and firmware updates. Medical equipment and energy infrastructure further reinforce UART adoption due to stringent regulatory requirements and safety considerations. Overall, the most dynamic growth segments are not consumer-facing products but industries that prioritize safety, compliance, and long-term operational value, a pattern repeatedly reflected in official product strategies and corporate communications from semiconductor manufacturers. Regionally, UART IC consumption patterns closely mirror industrial structures and development pathways. North America maintains steady demand driven by industrial control, aerospace, and medical equipment applications that prioritize high-reliability interfaces. Europe continues to adopt UART ICs across automotive electronics, industrial automation, and energy systems, with strong emphasis on certification and long-term supply commitments. China and the broader Asia-Pacific region have emerged as highly active application markets, supported by manufacturing upgrades, smart equipment deployment, and communications infrastructure development, with both international and domestic semiconductor companies highlighting strategic focus on embedded and industrial customers in official statements. Other emerging regions primarily reflect UART demand through infrastructure development and industrial equipment localization. Overall, UART IC demand is less influenced by short-term consumer cycles and more closely aligned with long-term industrialization and digital transformation trends. Regarding recent developments, Texas Instruments emphasized in 2021 through official product and technology updates its continued expansion of industrial- and automotive-grade serial interface portfolios to support long-term supply and functional safety requirements; NXP Semiconductors stated in its 2022 annual report that sustained demand for fundamental communication interfaces from industrial and automotive customers remains a core pillar of its embedded solutions business; and in 2023, Renesas Electronics announced through official communications its strategy to integrate serial communication interfaces more deeply with MCU platforms to enhance overall system reliability for industrial and infrastructure applications.

This report studies the global Universal Asynchronous Receiver-Transmitter (UART) ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Universal Asynchronous Receiver-Transmitter (UART) 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 Universal Asynchronous Receiver-Transmitter (UART) ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Universal Asynchronous Receiver-Transmitter (UART) ICs total production and demand, 2021-2032, (K Units)

Global Universal Asynchronous Receiver-Transmitter (UART) ICs total production value, 2021-2032, (USD Million)

Global Universal Asynchronous Receiver-Transmitter (UART) ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Universal Asynchronous Receiver-Transmitter (UART) ICs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Universal Asynchronous Receiver-Transmitter (UART) ICs domestic production, consumption, key domestic manufacturers and share

Global Universal Asynchronous Receiver-Transmitter (UART) ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Universal Asynchronous Receiver-Transmitter (UART) ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Universal Asynchronous Receiver-Transmitter (UART) ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Universal Asynchronous Receiver-Transmitter (UART) ICs 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 NXP Semiconductors, Diodes Incorporated, Renesas Electronics, Microchip TechnB6:B11ology, Analog Devices, Inc., Texas Instruments, MaxLinear, Inc., FTDI (Future Technology Devices International), Silicon Labs, STMicroelectronics, 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 Universal Asynchronous Receiver-Transmitter (UART) ICs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Universal Asynchronous Receiver-Transmitter (UART) ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Universal Asynchronous Receiver-Transmitter (UART) ICs Market,
Segmentation by Type:

UART

DUART

QUART

OCTART

Global Universal Asynchronous Receiver-Transmitter (UART) ICs Market,
Segmentation by Manufacturing:

CMOS UART ICs

BiCMOS UART ICs

Others

Global Universal Asynchronous Receiver-Transmitter (UART) ICs Market,
Segmentation by Package:

DIP UART ICs

SOIC UART ICs

QFN UART ICs

BGA UART ICs

Global Universal Asynchronous Receiver-Transmitter (UART) ICs Market,
Segmentation by Functional Capability:

Standard UART ICs

UART with FIFO

Iso-UART ICs

Multi-Channel UART ICs

Global Universal Asynchronous Receiver-Transmitter (UART) ICs Market,
Segmentation by Application:

Automotive

Military

Consumer Electronics

Communication

Others

Companies Profiled:

NXP Semiconductors

Diodes Incorporated

Renesas Electronics

Microchip Technology

Analog Devices, Inc.

Texas Instruments

MaxLinear, Inc.

FTDI (Future Technology Devices International)

Silicon Labs

STMicroelectronics

Infineon Technologies AG

ROHM Semiconductor

Prolific Technology Inc.

ON Semiconductor

Broadcom Inc.

Vishay Intertechnology

Key Questions Answered:

1. How big is the global Universal Asynchronous Receiver-Transmitter (UART) ICs market?
2. What is the demand of the global Universal Asynchronous Receiver-Transmitter (UART) ICs market?
3. What is the year over year growth of the global Universal Asynchronous Receiver-

Transmitter (UART) ICs market?

4. What is the production and production value of the global Universal Asynchronous Receiver-Transmitter (UART) ICs market?
5. Who are the key producers in the global Universal Asynchronous Receiver-Transmitter (UART) ICs market?
6. What are the growth factors driving the market demand?

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