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Global USB to Ethernet IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global USB to Ethernet IC market size is expected to reach $ 992 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

USB to Ethernet chip refers to a bridging type integrated circuit used to achieve data conversion between USB interface and Ethernet protocol, enabling devices without RJ45 network ports to connect to wired networks through USB. It is commonly used in ultra-thin laptops, tablets, embedded devices, and industrial terminals, By 2025, the global sales volume will be approximately 205 million pieces, with an average unit price of about 2.7 US dollars per piece, a capacity utilization rate of about 84%, and a gross profit margin of about 33%. Its upstream mainly includes semiconductor wafer manufacturing enterprises, analog and digital chip design companies, foundries, and packaging and testing enterprises. The midstream is network communication chip design and module manufacturers, and the downstream is mainly concentrated in consumer electronics manufacturers, computer and server equipment manufacturers, industrial automation equipment enterprises, and network equipment integrators. In the product cost structure, wafer and chip manufacturing costs account for about 50%, packaging and testing are about 18%, research and development design and IP Authorization is about 15%, yield loss and manufacturing expenses are about 10%, and management and channel costs are about 7%. In terms of demand, the list of downstream demand includes light and thin notebook expansion network interface, industrial Internet of Things equipment networking, router and network terminal upgrading, smart home equipment connection and embedded system communication support. The list of downstream customers includes PC brand manufacturers, consumer electronics foundries, industrial automation equipment manufacturers, network equipment manufacturers and smart terminal manufacturers. In terms of business opportunities, policy drivers are from digital infrastructure construction and industrial

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Internet promotion to drive the growth of connection demand, and technology innovation is driven by high-speed USB3. x and 2.5G The popularization of Ethernet protocol, low-power design, and the development of multifunctional integrated chips have led to changes in consumer demand for higher transmission rates, lower latency, and smaller devices, thereby promoting the development of chips towards high integration and high performance

The USB to Ethernet chip industry is currently in a stage of stable growth and technological upgrading, driven by the contradiction between the trend of lightweight terminal devices and the stability requirements of wired networks. With the continuous cancellation of built-in network port designs in laptops and tablets, external network solutions have become a rigid demand. At the same time, in industrial IoT and intelligent manufacturing scenarios, wired networks are still irreplaceable due to their stability and low latency advantages, thus continuously expanding the application scope of chips . At the technical level, products are upgrading from basic 100Mbps to gigabit and 2.5G or even higher speeds, while integration continues to improve, gradually integrating MAC control PHY and power management functions make single chip solutions a mainstream trend. In terms of application structure, consumer electronics still occupy a major share, but industrial and enterprise applications are growing faster, promoting the upgrading of products to high reliability and industrial standards. From the perspective of the competitive pattern, the industry is dominated by leading manufacturers such as Realtek, Microchip, ASIX, etc. The technical barriers are mainly reflected in protocol stack optimization, power control and compatibility design. With the normalization of remote office, the popularity of AI computing devices, and the deepening of industrial Internet, USB to Ethernet chips will continue to grow steadily in the future, and continue to evolve towards higher speed, lower power consumption, and multi-function integration.

This report studies the global USB to Ethernet IC production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global USB to Ethernet IC total production and demand, 2021-2032, (Million Units)

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

This report profiles key players in the global USB to Ethernet IC 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 ASIX Electronics Corp. (TW), Realtek Semiconductor Corp. (TW), Microchip Technology Inc. (US), Infineon Technologies AG (DE), Texas Instruments Inc. (US), NXP Semiconductors N.V. (NL), Marvell Technology Inc. (US), MaxLinear Inc. (US), ASMedia Technology Inc. (TW), JMicron Technology Corp. (TW), 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 to Ethernet IC 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 to Ethernet IC Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global USB to Ethernet IC Market, Segmentation by Type:

USB To 10M Ethernet IC

USB To 100M Ethernet IC

USB To 1000M Ethernet IC

Global USB to Ethernet IC Market, Segmentation by Maximum Operating Temperature:

?40?

40-75?

?75?

Global USB to Ethernet IC Market, Segmentation by USB Interface Protocol:

USB 2.0 Protocol Type

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USB 3.x Series Protocol Type

Other

Global USB to Ethernet IC Market, Segmentation by Application:

Signal Communication

Industrial Control

Medical Care

Consumer Electronics

Automobile

Other

Companies Profiled:

ASIX Electronics Corp. (TW)

Realtek Semiconductor Corp. (TW)

Microchip Technology Inc. (US)

Infineon Technologies AG (DE)

Texas Instruments Inc. (US)

NXP Semiconductors N.V. (NL)

Marvell Technology Inc. (US)

MaxLinear Inc. (US)

ASMedia Technology Inc. (TW)

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JMicron Technology Corp. (TW)

Davicom Semiconductor Inc. (TW)

WIZnet Co., Ltd. (KR)

Nanjing Qinheng Microelectronics Co., Ltd. (CN)

Motorcomm Electronic Technology Co., Ltd. (CN)

Shenzhen CoreChips Technology Co., Ltd. (CN)

Kawasaki Microelectronics Inc. (JP)

Ratoc Systems Inc. (JP)

Key Questions Answered:
1. How big is the global USB to Ethernet IC market?
2. What is the demand of the global USB to Ethernet IC market?
3. What is the year over year growth of the global USB to Ethernet IC market?
4. What is the production and production value of the global USB to Ethernet IC market?
5. Who are the key producers in the global USB to Ethernet IC market?
6. What are the growth factors driving the market demand?

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