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Global USB Switch ICs Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G1B75057E27EEN.html
Date: April 2026
Pages: 149
Price: US$ 4,480.00 (Single User License)
ID: G1B75057E27EEN

Abstracts

The global USB Switch ICs market size is expected to reach $ 2215 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

USB Switch ICs are devices used for path selection and multiplexing in USB signal links. Their core value is to provide controllable routing and disconnect between multiple USB sources and multiple endpoints, enabling port sharing, interface switching, USB Type C orientation correction, and signal multiplexing between USB and alternate modes such as DisplayPort. These devices are commonly implemented as analog switches or crosspoint switches, ranging from DPDT switches for USB 2.0 high speed differential pairs to multi lane differential crossbar matrices designed for the USB Type C ecosystem. They are used to switch with low loss between USB 3.x SuperSpeed lanes and DP lanes, while also providing switching paths for low speed sideband signals such as SBU when needed. Because high speed interfaces are sensitive to signal integrity, key design priorities include low insertion loss, low crosstalk, sufficient bandwidth, differential matching, and robust ESD and overvoltage protection under hot plug conditions. Some products further integrate redriving or equalization to improve link margin. Typical downstream applications include smartphones and tablets, PCs and docking stations, KVM and peripheral sharing systems, and automotive infotainment or industrial multi port platforms. The business model is primarily unit based IC sales, often bundled into reference designs together with Type C and PD controllers, redrivers retimers, and protection components to shorten customer time to market and increase platform stickiness. This definition is synthesized mainly from multiple vendors' descriptions and parametric positioning of USB 2.0 data switches and Type C high speed multiplexers.

The positioning of USB switch ICs is expanding from traditional USB 2.0 data path

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switching to high speed multi lane multiplexing and orientation correction centered on the USB Type C connector. Product forms are evolving from simple DPDT analog switches toward multi lane crossbar matrices. As end devices increasingly carry USB data and alternate modes such as DisplayPort over a single connector, systems must switch reliably between different protocols and lane mappings. Vendors therefore highlight USB 3.x and DP signal multiplexing over Type C as a core value proposition, describing these parts as crosspoint switches or multiplexers. At the same time, USB 2.0 high speed switching remains a large volume baseline requirement in many legacy and cost sensitive designs, especially in mobile and portable electronics, providing a stable shipment foundation for the market.

From a technology perspective, competitiveness is driven by signal integrity and integration level. High speed links are highly sensitive to insertion loss, crosstalk, bandwidth, and differential matching, and vendors commonly position capabilities by referencing high speed standards and application use cases, while presenting explicit crossbar switch solutions for Type C differential routing. To improve link margin and reduce external components, some devices further integrate redriving or equalization, allowing a single IC to perform both switching and link enhancement, which helps customers meet tighter PCB constraints at high bandwidth. Reliability is also strengthening as hot plug behavior and abnormal voltage protection become important differentiators, pushing co evolution of switching and protection functions.

On the demand side, incremental growth is mainly driven by the broad adoption of Type C, which increases port topology complexity, as well as the continued expansion of ecosystems such as docking stations, KVM, and multi port sharing. A more unified connector concentrates more functions and scenarios into a single interface, requiring more flexible lane multiplexing to support diverse device and mode combinations, thereby raising penetration of high speed switches and multiplexers. Supply remains multi regional and multi vendor, with US, Japanese, and European players strong in high end crossbar solutions and system level positioning, while Chinese vendors rapidly expand coverage in USB 2.0 switches and parametric product families, improving design in efficiency through broader part number lineups and selection tools. Overall, with continued penetration of Type C and high bandwidth display interconnect, the market is expected to maintain steady growth.

This report studies the global USB Switch ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for USB

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Switch 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 USB Switch ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global USB Switch ICs total production and demand, 2021-2032, (K Units)

Global USB Switch ICs total production value, 2021-2032, (USD Million)

Global USB Switch ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global USB Switch ICs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: USB Switch ICs domestic production, consumption, key domestic manufacturers and share

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

Global USB Switch ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global USB Switch ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global USB Switch 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 onsemi, Maxim Integrated, Diodes Incorporated, Texas Instruments, Toshiba, ROHM, Microchip Technology, Renesas Electronics, NXP Semiconductors, Power Integrations, 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

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used in analyzing the World USB Switch 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 USB Switch ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global USB Switch ICs Market, Segmentation by Type:

Single Channel

Multi-channel

Global USB Switch ICs Market, Segmentation by Directionality:

Bidirectional

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Unidirectional

Global USB Switch ICs Market, Segmentation by Control Method:

Simple Pin Control

Programmable Control

Global USB Switch ICs Market, Segmentation by Application:

Cell Phone

Audio Player

Camera

Others

Companies Profiled:

onsemi

Maxim Integrated

Diodes Incorporated

Texas Instruments

Toshiba

ROHM

Microchip Technology

Renesas Electronics

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NXP Semiconductors

Power Integrations

STMicroelectronics

Jiangsu Runic Technology

Union Semiconductor

Richtek Technology

Nisshinbo Micro Devices

Infineon Technologies

Key Questions Answered:

1. How big is the global USB Switch ICs market?
2. What is the demand of the global USB Switch ICs market?
3. What is the year over year growth of the global USB Switch ICs market?
4. What is the production and production value of the global USB Switch ICs market?
5. Who are the key producers in the global USB Switch ICs market?
6. What are the growth factors driving the market demand?

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