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Global High-Speed Interconnect ICs Market Growth 2026-2032

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Abstracts

The global High-Speed Interconnect ICs market size is predicted to grow from US$ 3959 million in 2025 to US$ 22772 million in 2032; it is expected to grow at a CAGR of 26.8% from 2026 to 2032.

High-speed interconnect ICs are semiconductor devices designed to establish high-bandwidth, low-latency and highly reliable data connections among CPUs, GPUs, AI accelerators, memory devices, network interface controllers, storage controllers, switches and other high-speed peripherals in data centers, AI servers, high-performance computing systems and storage infrastructure. These ICs operate primarily across high-speed serial links based on PCI Express, Compute Express Link, high-speed Ethernet and emerging accelerator interconnect architectures. They incorporate technologies such as high-speed SerDes, clock and data recovery, feed-forward equalization, decision-feedback equalization, digital signal processing, signal retiming, linear signal conditioning, protocol-aware link management, port switching, rate conversion, telemetry and memory-coherency control to compensate for insertion loss, jitter, crosstalk and reflections introduced by printed circuit boards, backplanes, connectors and copper cables.

The growth logic of the high-speed interconnect IC market is shifting from simple server shipment expansion toward a simultaneous increase in link count, per-lane data rate, accelerator density and memory-connectivity complexity. Conventional servers generally rely on a limited number of PCIe links connecting CPUs, memory, storage devices and network adapters. AI servers, by contrast, require substantially more high-bandwidth connections among CPUs, GPUs or other XPUs, NICs, NVMe devices, fabric switches and memory expansion resources. This increases both the number and the value of retimers, switches, memory controllers and signal-conditioning ICs deployed in

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each system.

From a supply perspective, Broadcom, Marvell and Microchip benefit from established positions in PCIe switching, storage connectivity, networking and signal-integrity products, allowing them to provide broad interconnect portfolios to hyperscale data-center and server customers. Specialized suppliers such as Astera Labs and Credo compete through advanced SerDes, DSP architectures, firmware, telemetry, interoperability validation and close platform-level cooperation with CPU, GPU and system vendors. Consolidation is becoming an increasingly important competitive mechanism. Marvell completed its acquisition of XConn Technologies in February 2026, adding advanced PCIe and CXL switching silicon to its portfolio and strengthening its scale-up switching capabilities. Qualcomm completed its acquisition of Alphawave Semi in December 2025, obtaining high-speed wired-connectivity IP, chiplet and connectivity-silicon capabilities to support its expansion into data-center markets.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “High-Speed Interconnect ICs Industry Forecast” looks at past sales and reviews total world High-Speed Interconnect ICs sales in 2025, providing a comprehensive analysis by region and market sector of projected High-Speed Interconnect ICs sales for 2026 through 2032. With High-Speed Interconnect ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world High-Speed Interconnect ICs industry.

This Insight Report provides a comprehensive analysis of the global High-Speed Interconnect ICs landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-Speed Interconnect ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global High-Speed Interconnect ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-Speed Interconnect ICs and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-Speed Interconnect ICs.

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This report presents a comprehensive overview, market shares, and growth opportunities of High-Speed Interconnect ICs market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

PCI Express Interconnect ICs

PCIe/CXL Dual-protocol Interconnect ICs

CXL Memory Connectivity ICs

Ethernet Interconnect ICs

AI Accelerator Scale-up Interconnect ICs

Multi-protocol and Other Interconnect ICs

Segmentation by Data Rate:

Up to 32 GT/s or 56 Gb/s per Lane

64 GT/s or 112 Gb/s per Lane

128 GT/s or 224 Gb/s per Lane

Above 128 GT/s or 224 Gb/s per Lane

Segmentation by Application:

AI Servers and Accelerator Systems

General-purpose Servers and HPC Systems

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Network Switches and Routing Equipment

Storage Systems

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

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UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Broadcom Inc.

Astera Labs, Inc.

Marvell Technology, Inc.

Microchip Technology Incorporated

Credo Technology Group Holding Ltd

Montage Technology Co., Ltd.

Joywell Semiconductor (Shanghai) Co., Ltd.

Parade Technologies, Ltd.

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Texas Instruments Incorporated

Diodes Incorporated

Semtech Corporation

MACOM Technology Solutions Holdings, Inc.

Kandou Bus SA

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-Speed Interconnect ICs market?

What factors are driving High-Speed Interconnect ICs market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-Speed Interconnect ICs market opportunities vary by end market size?

How does High-Speed Interconnect ICs break out by Type, by Application?

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