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Global High-Speed Interconnect ICs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-Speed Interconnect ICs market size was valued at US$ 4164 million in 2025 and is forecast to a readjusted size of US$ 22224 million by 2032 with a CAGR of 25.2% during review period.

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

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switches and memory expansion resources. This increases both the number and the value of retimers, switches, memory controllers and signal-conditioning ICs deployed in 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

This report is a detailed and comprehensive analysis for global High-Speed Interconnect ICs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-Speed Interconnect ICs market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global High-Speed Interconnect ICs market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global High-Speed Interconnect ICs market size and forecasts, by Type and by

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Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global High-Speed Interconnect ICs market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High-Speed Interconnect ICs

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-Speed Interconnect ICs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., Texas Instruments Incorporated, Diodes Incorporated, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

High-Speed Interconnect ICs market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

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Market segment 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

Market segment 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

Market segment by Application

AI Servers and Accelerator Systems

General-purpose Servers and HPC Systems

Network Switches and Routing Equipment

Storage Systems

Others

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Major players covered

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.

Texas Instruments Incorporated

Diodes Incorporated

Semtech Corporation

MACOM Technology Solutions Holdings, Inc.

Kandou Bus SA

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

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Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe High-Speed Interconnect ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Speed Interconnect ICs, with price, sales quantity, revenue, and global market share of High-Speed Interconnect ICs from 2021 to 2026.

Chapter 3, the High-Speed Interconnect ICs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Speed Interconnect ICs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and High-Speed Interconnect ICs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-Speed Interconnect ICs.

Chapter 14 and 15, to describe High-Speed Interconnect ICs sales channel, distributors, customers, research findings and conclusion.

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