

Global QSFP NIC 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 QSFP NIC market size was valued at US\$ 7007 million in 2025 and is forecast to a readjusted size of US\$ 14170 million by 2032 with a CAGR of 10.5% during review period.

A QSFP NIC (Quad Small Form-factor Pluggable Network Interface Card) is a high-speed network interface card that uses QSFP (Quad Small Form-factor Pluggable) transceiver interfaces to connect servers or computing systems to high-bandwidth networks. It typically supports data rates such as 40G, 100G, 200G, or 400G Ethernet, and is widely used in data centers, cloud computing, HPC (High Performance Computing), and AI infrastructure. QSFP NICs provide scalable, low-latency, and high-throughput connectivity for modern network architectures. In 2025, global QSFP NIC production reached approximately 21.28 M pcs, with an average global market price of around US\$ 320 per piece. Annual production capacity is 23.41 M pcs. Gross Profit Margin: 58%. The QSFP NIC industry chain is structured across three core layers: upstream semiconductor and component suppliers, midstream NIC manufacturers, and downstream hyperscale and enterprise users. Upstream includes key ASIC and DPU providers such as Intel, Broadcom, and NVIDIA, along with optical and high-speed interconnect components like PHY chips, QSFP modules, and PCB substrates. Midstream manufacturers design and integrate network interface cards, including both traditional NICs and SmartNICs, optimizing for bandwidth (100G–400G), latency, and power efficiency. Downstream demand is primarily driven by cloud service providers, AI training clusters, and telecom operators, where large-scale distributed computing requires ultra-high bandwidth and low-latency networking. Hyperscalers such as AWS, Google, and Microsoft increasingly influence NIC design through custom hardware requirements, accelerating the shift from traditional NICs to programmable SmartNIC and DPU-based architectures. QSFP NICs are no longer just connectivity hardware but

have become a critical compute extension in AI and cloud infrastructure. Their value is shifting from simple data transmission to workload offloading, security processing, and distributed computing acceleration. This makes them a strategic component in AI data centers rather than a commodity networking product. The market is entering a consolidation phase where a few dominant players (Intel, NVIDIA, Broadcom) will control most of the high-end 100G–400G ecosystem, while innovation will increasingly come from SmartNIC and DPU integration. The long-term trend clearly points toward NICs evolving into programmable compute nodes inside the network.

This report is a detailed and comprehensive analysis for global QSFP NIC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Data Rate 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 QSFP NIC market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global QSFP NIC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global QSFP NIC market size and forecasts, by Data Rate and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global QSFP NIC market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 QSFP NIC

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 QSFP NIC 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 Intel Corporation, NVIDIA Corporation, Broadcom Inc., Marvell Technology, Cisco Systems, Arista Networks, Huawei Technologies, Advanced Micro Devices, Hewlett Packard Enterprise, Dell Technologies, etc.

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

Market Segmentation

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

Market segment by Data Rate

40G QSFP NIC

100G QSFP NIC

200G QSFP NIC

400G QSFP NIC

Market segment by Ethernet

Ethernet NIC

InfiniBand NIC

RoCE NIC

Proprietary NIC

Market segment by Functional Capability

Standard NIC

RDMA-Enabled NIC

Smart NIC

DPU-based NIC

Market segment by Application

Cloud Service Provider

AI Company

Supercomputing Center

Telecom Operator

Major players covered

Intel Corporation

NVIDIA Corporation

Broadcom Inc.

Marvell Technology

Cisco Systems

Arista Networks

Huawei Technologies

Advanced Micro Devices

Hewlett Packard Enterprise

Dell Technologies

Chelsio Communications

Napatech

Silicom Ltd.

Lenovo

AMD Pensando Systems

Juniper Networks

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)

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

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe QSFP NIC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of QSFP NIC, with price, sales quantity, revenue, and global market share of QSFP NIC from 2021 to 2026.

Chapter 3, the QSFP NIC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the QSFP NIC 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 Data Rate and by Application, with sales market share and growth rate by Data Rate, 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 QSFP NIC market forecast, by regions, by Data Rate, 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 QSFP NIC.

Chapter 14 and 15, to describe QSFP NIC sales channel, distributors, customers, research findings and conclusion.

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