

Global QSFP NIC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global QSFP NIC market size is expected to reach \$ 14170 million by 2032, rising at a market growth of 10.5% CAGR during the forecast period (2026-2032).

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 studies the global QSFP NIC production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global QSFP NIC total production and demand, 2021-2032, (K Pcs)

Global QSFP NIC total production value, 2021-2032, (USD Million)

Global QSFP NIC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global QSFP NIC consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: QSFP NIC domestic production, consumption, key domestic manufacturers and share

Global QSFP NIC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global QSFP NIC production by Data Rate, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global QSFP NIC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global QSFP NIC 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World QSFP NIC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Data Rate, 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 QSFP NIC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global QSFP NIC Market, Segmentation by Data Rate:

40G QSFP NIC

100G QSFP NIC

200G QSFP NIC

400G QSFP NIC

Global QSFP NIC Market, Segmentation by Ethernet:

Ethernet NIC

InfiniBand NIC

RoCE NIC

Proprietary NIC

Global QSFP NIC Market, Segmentation by Functional Capability:

Standard NIC

RDMA-Enabled NIC

Smart NIC

DPU-based NIC

Global QSFP NIC Market, Segmentation by Application:

Cloud Service Provider

AI Company

Supercomputing Center

Telecom Operator

Companies Profiled:

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

Key Questions Answered:

1. How big is the global QSFP NIC market?
2. What is the demand of the global QSFP NIC market?
3. What is the year over year growth of the global QSFP NIC market?
4. What is the production and production value of the global QSFP NIC market?
5. Who are the key producers in the global QSFP NIC market?

6. What are the growth factors driving the market demand?

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