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Global 100G SFP112 Transceiver Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 100G SFP112 Transceiver market size is expected to reach $ 812 million by 2032, rising at a market growth of 35.9% CAGR during the forecast period (2026-2032).

The 100G SFP112 transceiver is a compact pluggable optical transceiver designed for high-speed Ethernet interconnects. Its core function is to deliver 100Gbps-class optical-electrical conversion within a single SFP112 form factor for short-, medium-, and long-reach links among switches, servers, routers, optical transport equipment, and test platforms. These products typically use single-lambda 100G PAM4 modulation, host-side FEC, CMIS management interfaces, and VCSEL, EML, PIN, APD, or silicon photonics integrated devices to support different reach and power configurations. The common delivery form is a hot-pluggable module, with typical interfaces including duplex LC and single-fiber BiDi. Key applications include data center switch interconnects, AI cluster high-speed interconnects, cloud network access, in-rack and inter-rack aggregation, 400G port breakout connections, carrier metro access, and laboratory validation.

The core value of 100G SFP112 transceivers lies in compressing 100G single-port capability into a smaller form factor, enabling equipment vendors to increase 100G port density within the same front-panel space. Compared with traditional QSFP28 modules, SFP112 is better suited to high-density switches, edge aggregation equipment, and next-generation 100G access port designs, particularly where network platforms need to preserve 100G ecosystem compatibility while reducing space and power pressure.

Industry growth is driven by two directions. On one side, AI clusters and cloud data centers continue to move toward higher network speeds, while 100G SFP112 can serve as a complementary link type for in-rack access, management networks, high-density

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leaf-spine switching, and 400G breakout connections. On the other side, carrier metro and enterprise campus networks still have substantial upgrade demand from 10G, 25G, 40G, and legacy 100G ports. Through single-lambda PAM4 and a low-power compact form factor, SFP112 creates a balanced position among cost, density, and compatibility.

Competition will center on reach class, power consumption, compatibility coding capability, device integration, and mass-production consistency. Short-reach SR1 products depend more on VCSEL and low-power designs, while medium- and long-reach DR1, FR1, LR1, and ER1 products depend more on EML, PIN, APD, and silicon photonics solutions. Suppliers in China, Singapore, Japan, and Germany have already introduced products or portfolios. As switch-chip port capability, host-side FEC, and the CMIS management ecosystem mature, 100G SFP112 is expected to move from early adoption toward scaled deployment.

This report studies the global 100G SFP112 Transceiver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 100G SFP112 Transceiver 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 100G SFP112 Transceiver that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global 100G SFP112 Transceiver total production and demand, 2021-2032, (K Units)
Global 100G SFP112 Transceiver total production value, 2021-2032, (USD Million)
Global 100G SFP112 Transceiver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global 100G SFP112 Transceiver consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: 100G SFP112 Transceiver domestic production, consumption, key domestic manufacturers and share
Global 100G SFP112 Transceiver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global 100G SFP112 Transceiver production by Optical Interface Standard, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global 100G SFP112 Transceiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global 100G SFP112 Transceiver 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 Eoptolink Technology Inc., Ltd., NEC Corporation, Shenzhen Gigalight Technology Co., Ltd., FIBERSTAMP Technology Co., Ltd., FLEXOPTIX GmbH, Shenzhen C-Light Network Communication Co., Ltd., 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 100G SFP112 Transceiver 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 Optical Interface Standard, 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 100G SFP112 Transceiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global 100G SFP112 Transceiver Market, Segmentation by Optical Interface Standard:

100G-SR1 Optical Module

100G-DR1 Optical Module

100G-FR1 Optical Module

100G-LR1 Optical Module

100G-ER1-30 Optical Module

100G-ER1-40 Optical Module

100G-BiDi LR1 Optical Module

100G-BiDi ER1 Optical Module

Global 100G SFP112 Transceiver Market, Segmentation by Optoelectronic Device Structure:

VCSEL-PIN Optical Module

EML-PIN Optical Module

EML-APD Optical Module

Silicon Photonics Integrated Optical Module

Other

Global 100G SFP112 Transceiver Market, Segmentation by Wavelength System:

850 nm Optical Module

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1310 nm Optical Module

1270 nm/1330 nm Bidirectional Optical Module

LAN-WDM Wavelength Optical Module

CWDM Wavelength Optical Module

Other

Global 100G SFP112 Transceiver Market, Segmentation by Application:

Data Center Switch Interconnect

AI Cluster High-Speed Interconnect

Cloud Network Access

In-Rack Server Access

Enterprise Campus Core Uplink

Other

Companies Profiled:

Eoptolink Technology Inc., Ltd.

NEC Corporation

Shenzhen Gigalight Technology Co., Ltd.

FIBERSTAMP Technology Co., Ltd.

FLEXOPTIX GmbH

Shenzhen C-Light Network Communication Co., Ltd.

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Key Questions Answered:

1. How big is the global 100G SFP112 Transceiver market?
2. What is the demand of the global 100G SFP112 Transceiver market?
3. What is the year over year growth of the global 100G SFP112 Transceiver market?
4. What is the production and production value of the global 100G SFP112 Transceiver market?
5. Who are the key producers in the global 100G SFP112 Transceiver market?
6. What are the growth factors driving the market demand?

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