

Global 1D Fiber Array 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 1D Fiber Array market size was valued at US\$ 86.75 million in 2025 and is forecast to a readjusted size of US\$ 168 million by 2032 with a CAGR of 9.9% during review period.

In 2025, global 1D Fiber Arrays production reached approximately 20073 K Units, with an average global market price of around 4.2 USD per Unit.

A 1D Fiber Array is a high-precision, passive linear optical component formed by arranging multiple optical fibers in an orderly straight line at fixed intervals, followed by precise positioning within V-grooves, adhesive bonding, and precision end-face polishing. With all fibers distributed in a single linear row and featuring uniform channel spacing, the array enables high-precision coupling and alignment with optical waveguides, silicon photonics chips, and other optical device end-faces. This facilitates the parallel, low-loss transmission, splitting, and combining of multiple optical signals. Characterized by high alignment precision, low insertion loss, excellent channel uniformity, and suitability for high-density optical interconnects, the 1D Fiber Array serves as a core optical path connection element in the fields of optical modules, PLC devices, CPO optical engines, and photonic integration.

The raw materials for 1D Fiber Arrays mainly include optical fibers, V-groove substrates, adhesives, and other auxiliary materials. Typical raw material suppliers include Heraeus, Tosoh, Momentive, Shin-Etsu, SCHOTT, Kavalier, and others. Downstream applications are mainly in planar optical wave circuit (PLC) devices, optical transceiver modules, silicon photonics, CPO, and optical engine fields. Typical users include NVIDIA, Broadcom, Huawei, ZTE, and others.

The single-line capacity of 1D Fiber Arrays varies greatly depending on the technology route, degree of customization, and level of automation of the production line. The overall gross profit margin of the industry is in the range of 30%-45%.

By virtue of its unique characteristics such as micron-level high-precision alignment, multi-channel parallel coupling, low insertion loss, high channel consistency, high-density compact arrangement, and strong temperature drift stability, optical 1D Fiber Arrays can effectively solve the difficulty of docking high-speed optical interconnection optical paths, high signal loss, and poor multi-channel consistency. , low coupling efficiency between chips and optical fibers, limited space for high-density integration, and prominent heat dissipation pressure on computing power interconnections. It perfectly adapts to the stringent optical path matching requirements of high-speed optical modules and photonic integrated systems, and opens up efficient and stable optical links between optical fibers, optical chips, and optical engines.

The industrial development of various regions around the world is obviously differentiated. North America relies on its cutting-edge computing power architecture and silicon photonics underlying technology research and development advantages to dominate CPO. Co-packaged optics, high-end optical engine solution definition and technical standard formulation occupy the core demand market for high-end and high-precision optical 1D Fiber Arrays; Europe focuses on long-distance telecommunications transmission and industrial harsh scene applications, product compliance and long-term reliability standards are strict, and the demand for high-end customized products is stable; the Asia-Pacific region has complete The downstream optoelectronics industry chain, large-scale mass production capabilities and cost advantages cover the vast majority of global mass production supplies, coupled with the explosion of local computing power infrastructure and optical modules, it has become the core region with the fastest growth in the global industry; infrastructure in other regions such as the Middle East and South America is gradually improving, and the demand for supporting optical 1D Fiber Arrays is steadily being released. According to our data, the market share of optical 1D Fiber Arrays in the Asia-Pacific region will account for approximately 48% in 2025. It is expected that the market share will reach 52% by 2032, with a compound annual growth rate of approximately 15%.

The overall competitive landscape of the industry presents a situation of solid high-end technology barriers, high concentration of leaders, and differentiated tiered competition at home and abroad. Overseas established companies have long controlled high-precision, silicon-optically adapted high-end product patents and leading customer resources. Domestic manufacturers continue to break through the high-end field relying

on process iteration, localized rapid response, and cost-effective advantages. Mid- and low-end market participants are increasing, and homogeneous competition is gradually intensifying. Leading companies continue to consolidate their market position with precision calibration, batch consistency, and full-link supporting capabilities. The current global core players include Corning, Sumitomo Electric Industries, TFC Communication, Kohoku Kogyo, Zesum, Orbray, Shijia Photons Technology, PHIX, HYC, SENKO Advanced Components, EverProX Technologies, Molex, Browave Corporation, etc. In 2025, the global TOP5 market share will account for approximately 43%.

The continuous expansion of AI computing power has led to the iterative upgrade of high-speed optical modules, the large-scale popularization of silicon photonic chips, the accelerated mass production of CPO co-packaged optics, and the rapid penetration of integrated optical engines into commercial applications. As the core optical path interface of chip-level optical interconnection, 1D Fiber Arrays are ushering in long-term deterministic growth space. Products continue to evolve towards higher density, lower coupling loss, smaller size, and deep silicon optical adaptation. The demand for full-scenario optical and electrical interconnection continues to expand. The overall growth potential of the industry is sufficient and the long-term development prospects are broad.

This report is a detailed and comprehensive analysis for global 1D Fiber Array 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 1D Fiber Array market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 1D Fiber Array market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 1D Fiber Array market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices

(US\$/Unit), 2021-2032

Global 1D Fiber Array market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 1D Fiber Array

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 1D Fiber Array 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 Corning, Sumitomo Electric Industries, TFC Communication, Kohoku Kogyo, Zesum, Orbray, Shijia Photons Technology, PHIX, HYC, SENKO Advanced Components, etc.

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

Market Segmentation

1D Fiber Array 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 segment by Type

4 Channels Below

4-8 Channels

9-16 Channels

17-32 Channels

32 Channels Above

Market segment by Function

Standard Fiber Array

Polarization-Maintaining Fiber Array

Market segment by Substrate Materials

Glass-based

Ceramic-based

Silicon-based

Market segment by Application

Planar Lightwave Circuits (PLC) Device

Optical Transceiver Modules

Silicon Photonics & CPO & Optical Engines

Others

Major players covered

Corning

Sumitomo Electric Industries

TFC Communication

Kohoku Kogyo

Zesum

Orbray

Shijia Photons Technology

PHIX

HYC

SENKO Advanced Components

EverProX Technologies

Molex

Browave Corporation

Vlink optics (Advanced Fiber Resources)

Yilut Technology

Yangtze Optical Electronic (YOEC)

HIYAMA INDUSTRY

HATAKEN

Kawashima Manufacturing

SQS Vlaknova optika

SEIKOH GIKEN

Shenzhen Seacent Photonics

OZ Optics Limited

Neptec

Fiberwe

FiberBridge Photonics

Fiber Optics Group

JPT

Beijing Reful

FOCI

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 1D Fiber Array product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1D Fiber Array, with price, sales

quantity, revenue, and global market share of 1D Fiber Array from 2021 to 2026.

Chapter 3, the 1D Fiber Array competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1D Fiber Array 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 1D Fiber Array 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 1D Fiber Array.

Chapter 14 and 15, to describe 1D Fiber Array sales channel, distributors, customers, research findings and conclusion.

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