

Active Optical Cable Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-06-14 | 142 pages | IMARC Group

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Report description:

The global active optical cable market size reached US\$ 2,741.3 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 10,013.5 Million by 2028, exhibiting a growth rate (CAGR) of 23.37% during 2023-2028.

Active optical cables are transceiver products that incorporate active electrical and optical components to receive and boost signals through fiber optical cables. These cables consist of multi-mode optical fiber, a transceiver, a control chip, and modules. They convert electrical signals into optical for the transmission of data and video communications over long and short distances between sources and displays. Active optical cables are widely used in personal computing, data centers, digital signage, consumer electronics, and high-performance computing. These cables are lightweight, help in reducing bulkiness, and offer higher bandwidth and enhanced performance with low power consumption. In comparison to attach copper cables, active optical cables eliminate the need for an external optical transceiver and offer resistance to electromagnetic interference

Active Optical Cable Market Trends:

The increasing demand for consumer electronics across the globe is the one of the prime factors driving the market growth. In line with this, the increasing demand for lightweight and thinner designed active optical cables due to the miniaturization of consumer electronics that offer high-quality video resolution displays is favoring the market growth. Moreover, various technological advancements, such as the introduction of network-function virtualization (NFV) and software-defined networking (SDN) that assist in reducing network power consumption and provide enhanced life cycles for network hardware, are providing a considerable boost to the market growth. Additionally, the widespread adoption of active optical cables due to their enhanced virtualized connectivity minimized errors and cost-effectiveness is positively impacting the market growth. Other factors, such as the significant growth in the telecom industry and implementation of various government initiatives to improve the network infrastructure, are creating a positive outlook for the market.

Key Market Segmentation:

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IMARC Group provides an analysis of the key trends in each sub-segment of the global active optical cable market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on connector type, technology and application.

Breakup by Connector Type:

- QSFP
- CXP
- CDFP
- CFP
- SFP
- Others

Breakup by Technology:

- InfiniBand
- Ethernet
- HDMI
- DisplayPort
- USB
- Others

Breakup by Application:

- Data Center
- High-Performance Computing
- Personal Computing
- Digital Signage
- Consumer Electronics
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia
- Others
- Europe
 - Germany
 - France

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United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Amphenol Corporation, Broadcom Inc., EMCORE Corporation, Fujitsu Limited, II-VI Incorporated, International Business Machines Corporation, Lumentum Operations LLC, Molex LLC (Koch Industries Inc.), Sumitomo Electric Industries Ltd., TE Connectivity and The Siemon Company.

Report Coverage:

Key Questions Answered in This Report

1. What was the size of the global active optical cable market in 2022?
2. What is the expected growth rate of the global active optical cable market during 2023-2028?
3. What are the key factors driving the global active optical cable market?
4. What has been the impact of COVID-19 on the global active optical cable market?
5. What is the breakup of the global active optical cable market based on the connector type?
6. What is the breakup of the global active optical cable market based on the technology?
7. What is the breakup of the global active optical cable market based on the application?
8. What are the key regions in the global active optical cable market?
9. Who are the key players/companies in the global active optical cable market?

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