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

Market Report | 2023-07-05 | 144 pages | IMARC Group

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Report description:

Market Overview:

The global optical interconnect market size reached US$ 10.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 22.0 Billion by 2028, exhibiting a growth rate (CAGR) of 12.9% during 2023-2028.

An optical interconnect is a link that is used to connect multiple computer systems in a circuit through light. It is an interface that assists in receiving digital signals from network equipment and converting them into optical signals that are transmitted through the fiber network. Advanced signal processing is facilitated by optical interconnect to monitor or manage errors and reduce distortion in fiber optics. Optical interconnections can range from short connections on motherboards to kilometer-long links used in large area networks. These interconnects have a low frequency-dependent loss, negligible crosstalk and high bandwidth due to which they find wide applications in the semiconductor industry.

Increasing demand for internet services across the domestic, commercial and industrial sectors is the key factor driving the market growth. Owing to the rapid growth of the information technology (IT) sector along with the introduction of big data analytics and Internet of Things (IoT), the demand for high data transmission and bandwidth communication is on the rise, which has led to an increased demand for optical interconnect globally. Optical interconnect is considered a more suitable alternative to the traditionally used technologies, in order to meet the current performance requirements of data processors. Also, the rising demand for increased bandwidth capacity along with the reduced power consumption within data center networks is acting as a major growth-inducing factor. Furthermore, rising network traffic from both private and government sectors has resulted in an increasing demand for optical interconnect devices for efficient utilization of resources while handling web applications and cloud computing systems. With cloud applications facilitating rapid communication and the rising trend of digitalization, there is a rise in the adoption of optical interconnect systems that favor the growth of various information-centric industries.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global optical interconnect market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product type, interconnect level, fiber mode, application and end use industry.

Breakup by Product Type:

Cable Assemblies
Indoor Cable Assemblies
Outdoor Cable Assemblies
Active Optical Cables
Multi-Source Agreement
QSFP
CXP
CFP
CDFP
Connectors
LC Connectors
SC Connectors
ST Connectors
MPO/MTP Connectors
Optical Transceivers
Free Space Optics, Fiber and Waveguides
Silicon Photonics
PIC-Based Interconnects
Optical Engines

Breakup by Interconnect Level:

Chip- & Board-Level Interconnect
Board-To-Board and Rack-Level Optical Interconnect
Metro & Long Haul Optical Interconnect

Breakup by Fiber Mode:

Multi-Mode Fiber
Step Index Multi-Mode Fiber
Graded Index Multi-Mode Fiber
Single-Mode Fiber

Breakup by Application:

Data Communication
Data Center
High-Performance Computing (HPC)
Telecommunication

Breakup by End Use Industry:

Military and Aerospace
Consumer Electronics
Automotive
Chemicals
Others

Breakup by Region:

North America
Europe
Asia Pacific
Middle East and Africa
Latin America

Competitive Landscape:
The report has also analysed the competitive landscape of the market with some of the key players being Finisar, Mellanox Technologies, Molex, Oclaro, Sumitomo Electric Industries, Broadcom, TE Connectivity, Amphenol, Juniper Networks, Fujitsu, Infinera Corporation, Lumentum Holdings, OFS Fitel, LLC (FURUKAWA ELECTRIC CO., LTD), 3M Company, Acacia Communication, Dow Corning, Huawei, Intel, Infineon Technologies, etc.

Key Questions Answered in This Report:
How has the global optical interconnect market performed so far and how will it perform in the coming years?
What are the key regional markets in the global optical interconnect industry?
What has been the impact of COVID-19 on the global optical interconnect industry?
What is the breakup of the market based on the product type?
What is the breakup of the market based on the interconnect level?
What is the breakup of the market based on the fiber mode?
What is the breakup of the market based on the application?
What is the breakup of the market based on the end use industry?
What are the various stages in the value chain of the global optical interconnect industry?
What are the key driving factors and challenges in the global optical interconnect industry?
What is the structure of the global optical interconnect industry and who are the key players?

Table of Contents:

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