

Optical Transceiver Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Protocol (Ethernet, Fiber Channel, CWDM/DWDM, FTTx), By Data Rate (Less than 10Gbps, 10 Gbps to 40 Gbps, 100 Gbps, Greater than 100 Gbps), By Application (Data Center, Telecommunication), By Region, By Competition, 2018-2028

<https://marketpublishers.com/r/O9350DCFAE5AEN.html>

Date: November 2023

Pages: 182

Price: US\$ 4,900.00 (Single User License)

ID: O9350DCFAE5AEN

Abstracts

Global Optical Transceiver Market was valued at USD 10.7 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 12.9% through 2028. The global optical transceiver market is currently experiencing robust growth, primarily fueled by the escalating demand for high-speed data transmission and communication networks worldwide. This surge is attributed to rapid advancements in technologies like 5G, cloud computing, and the continuous expansion of data centers. Optical transceivers, essential components in these technologies, facilitate seamless and high-bandwidth data transmission across various devices and networks. With the increasing adoption of internet-enabled devices, remote work setups, and the proliferation of data-intensive applications, the need for efficient data transmission solutions has become paramount. The market is witnessing a shift towards higher data rates and improved bandwidth capacities, driving the demand for advanced optical transceivers. Additionally, the rise in global internet penetration and the growing focus on enhancing network infrastructure to support emerging technologies are further propelling the market's expansion. Key industry players are investing heavily in research and development to innovate new transceiver solutions, fostering competition and technological progress in the market. As a result, the global optical transceiver market is poised for sustained growth in the foreseeable future.

Key Market Drivers

Increased Data Consumption

The global optical transceiver market is experiencing significant growth, driven by the increased consumption of data. In today's digital age, the demand for high-speed data transmission has skyrocketed. With the rise of cloud computing, streaming services, social media, and other data-intensive applications, individuals and businesses are generating and consuming vast amounts of data. Optical transceivers play a crucial role in enabling high-speed data transmission over optical fiber networks. They convert electrical signals into optical signals and vice versa, allowing data to be transmitted over long distances with minimal loss and latency. As the volume of data continues to grow, so does the need for efficient and reliable optical transceiver solutions. Optical transceivers provide the bandwidth and speed required to meet the increasing demand for data transmission, making them an essential component in various industries, including telecommunications, data centers, enterprise networks, and more.

Rapid Expansion of Data Centers

The global optical transceiver market is witnessing significant growth, driven by the rapid expansion of data centers. Data centers serve as the backbone of the digital infrastructure, housing and processing vast amounts of data. With the increasing adoption of cloud computing, big data analytics, and artificial intelligence, the demand for data centers has surged. Data centers require high-speed and high-capacity connectivity to ensure seamless data transmission and processing. Optical transceivers, with their ability to transmit data at high speeds over long distances, are essential for interconnecting servers, switches, and storage devices within data centers. The deployment of optical transceivers in data centers enables efficient data transfer, reduces latency, and enhances overall performance. As the number and size of data centers continues to grow, so does the demand for optical transceivers, driving the growth of the global market.

Transition to Higher Speed Networks

The global optical transceiver market is experiencing significant growth, driven by the transition to higher speed networks. As the demand for data transmission increases, there is a need for faster and more efficient network infrastructure. Traditional copper-based networks are limited in their capacity to support high-speed data transmission over long distances. Optical transceivers, on the other hand, leverage optical fiber

technology to transmit data at much higher speeds and over longer distances with minimal signal degradation. With the emergence of technologies such as 5G, Internet of Things (IoT), and artificial intelligence, there is a growing need for networks that can handle massive amounts of data in real-time. Optical transceivers, with their ability to support higher speeds such as 40G, 100G, and beyond, are becoming increasingly crucial in meeting these requirements. The transition to higher speed networks is driving the demand for optical transceivers in various sectors, including telecommunications, data centers, and enterprise networks.

Growing Demand for Bandwidth-Intensive Applications

The global optical transceiver market is witnessing significant growth, driven by the growing demand for bandwidth-intensive applications. In today's digital landscape, there is an increasing reliance on applications that require high bandwidth, such as video streaming, online gaming, virtual reality, and augmented reality. These applications generate and consume large amounts of data, requiring networks with high-speed and high-capacity capabilities. Optical transceivers, with their ability to transmit data at high speeds over optical fiber networks, are essential for supporting these bandwidth-intensive applications. They enable seamless and uninterrupted data transmission, ensuring a smooth user experience. As the popularity of bandwidth-intensive applications continues to grow, so does the demand for optical transceivers that can provide the necessary bandwidth and speed.

Advancements in Fiber Optic Technology

The global optical transceiver market is experiencing significant growth, driven by advancements in fiber optic technology. Fiber optic technology has evolved rapidly over the years, enabling higher data transmission speeds, longer distances, and improved reliability. These advancements have made optical transceivers more efficient and cost-effective, driving their adoption in various industries. The development of new fiber optic materials, such as multicore fibers and hollow-core fibers, has further expanded the capabilities of optical transceivers. Additionally, advancements in manufacturing processes and packaging technologies have led to smaller and more compact optical transceivers, making them easier to integrate into different devices and systems. As fiber optic technology continues to advance, optical transceivers are expected to become even more versatile and capable, driving the growth of the global market.

Key Market Challenges

Compatibility and Interoperability

The global optical transceiver market faces significant challenges related to compatibility and interoperability. With the existence of multiple optical transceiver form factors and standards, such as SFP, QSFP, CFP, and CXP, ensuring compatibility between different transceiver types can be complex. This challenge is further compounded by the need to support various network protocols and transmission speeds. As a result, network operators and end-users often face difficulties in selecting and deploying optical transceivers that are compatible with their existing infrastructure. The lack of interoperability can lead to increased costs, operational inefficiencies, and limited flexibility in network design and expansion.

Rapid Technological Advancements

The rapid pace of technological advancements in the optical transceiver market presents a challenge for manufacturers and end-users alike. As new standards and technologies emerge, such as 400G and 800G, manufacturers must invest in research and development to stay competitive. This constant need for innovation can strain resources and increase production costs. Additionally, end-users may face challenges in keeping up with the latest advancements and determining which technologies are most suitable for their specific network requirements. The rapid evolution of optical transceiver technologies requires continuous learning and adaptation, posing a challenge for both manufacturers and end-users.

Quality and Reliability

Ensuring the quality and reliability of optical transceivers is a critical challenge in the global market. Optical transceivers are complex devices that must meet stringent performance standards to ensure reliable data transmission. However, the market is flooded with counterfeit and low-quality products that may not meet these standards. These substandard transceivers can result in network disruptions, data loss, and compromised network security. Manufacturers and end-users must be vigilant in sourcing optical transceivers from reputable suppliers and conducting thorough quality assurance and testing processes to mitigate the risks associated with counterfeit and low-quality products.

Power Consumption and Heat Dissipation

Power consumption and heat dissipation are significant challenges in the optical

transceiver market. As data transmission speeds increase, optical transceivers consume more power, leading to higher energy costs and increased heat generation. Managing power consumption and heat dissipation becomes crucial to ensure the reliable operation and longevity of optical transceivers. Manufacturers must develop energy-efficient transceiver designs and implement effective heat dissipation mechanisms to address these challenges. Additionally, end-users must consider power and cooling requirements when deploying optical transceivers in their network infrastructure.

Standardization and Regulatory Compliance

Standardization and regulatory compliance pose challenges in the global optical transceiver market. With multiple form factors, transmission speeds, and network protocols, achieving industry-wide standardization can be complex. Lack of standardization can lead to compatibility issues, limited interoperability, and fragmented market segments. Additionally, manufacturers must comply with various international regulations and standards related to electrical safety, electromagnetic interference, and environmental impact. Ensuring compliance with these regulations requires significant investments in testing, certification, and ongoing monitoring of product performance.

Key Market Trends

Rapid Growth in Data Consumption

The global optical transceiver market is experiencing rapid growth, driven by the ever-increasing demand for data consumption. With the proliferation of digital technologies, the volume of data being generated, transmitted, and processed has reached unprecedented levels. This surge in data consumption is fueled by various factors, including the rise of cloud computing, the Internet of Things (IoT), streaming services, and the need for high-speed data transmission in sectors such as telecommunications, data centers, and enterprise networks. As a result, there is a growing need for high-performance optical transceivers that can handle immense data traffic and provide reliable and efficient connectivity solutions.

Advancements in Fiber Optic Technology

Advancements in fiber optic technology have played a significant role in driving the growth of the optical transceiver market. Fiber optic cables offer several advantages over traditional copper cables, including higher bandwidth, longer transmission

distances, and immunity to electromagnetic interference. These benefits have made fiber optics the preferred choice for high-speed data transmission in various applications. Optical transceivers, which serve as the interface between fiber optic cables and electronic devices, have evolved to support higher data rates, increased transmission distances, and improved reliability. Manufacturers are continuously innovating to develop optical transceivers with advanced features such as higher data rates, lower power consumption, and compatibility with different network architectures.

Increasing Deployment of 5G Networks

The deployment of 5G networks is driving the demand for optical transceivers. 5G technology promises faster data speeds, lower latency, and higher network capacity, enabling a wide range of applications such as autonomous vehicles, smart cities, and industrial automation. To support the massive data traffic and ultra-low latency requirements of 5G networks, optical transceivers with high-speed capabilities and low latency are essential. These transceivers enable the seamless transmission of data between base stations, data centers, and other network components, ensuring reliable and efficient communication in the 5G ecosystem.

Growing Demand for Data Centers

The increasing demand for data centers is a significant driver for the optical transceiver market. Data centers serve as the backbone of the digital economy, hosting and processing vast amounts of data. As the demand for cloud computing, online services, and big data analytics continues to rise, the need for data centers with higher processing power and storage capacity is also increasing. Optical transceivers play a crucial role in connecting servers, switches, and storage devices within data centers, enabling high-speed data transmission and efficient network connectivity. The demand for optical transceivers in data centers is driven by factors such as the need for higher data rates, lower power consumption, and the migration to higher-density network architectures.

Shift Towards Higher Data Rates

The optical transceiver market is witnessing a shift towards higher data rates to meet the growing demand for faster and more efficient data transmission. As data consumption continues to increase, there is a need for optical transceivers that can support higher data rates, such as 100G, 400G, and beyond. Manufacturers are investing in research and development to develop advanced optical transceivers

capable of handling these higher data rates while maintaining signal integrity and reliability. This shift towards higher data rates is driven by various applications, including data centers, telecommunications, and high-performance computing, where the need for faster data transmission is critical.

Expansion of E-commerce and Online Retail Channels

The expansion of e-commerce and online retail channels has had a transformative impact on the optical transceiver market. With the rise of digital platforms, consumers now have easy access to a wide range of optical transceivers from various brands and sellers. Online retail channels provide consumers with the convenience of comparing prices, reading product reviews, and making informed purchasing decisions. This digital marketplace has also increased competition among manufacturers, leading to product innovation and improved customer experiences. As e-commerce continues to grow, the optical transceiver market is expected to witness sustained expansion, driven by the increasing adoption of online purchasing channels and the convenience they offer to consumers.

Segmental Insights

Protocol Insights

In 2022, the Ethernet segment dominated the global optical transceiver market and is expected to maintain its dominance during the forecast period. Ethernet-based optical transceivers are widely used in various applications, including data centers, enterprise networks, and telecommunications. The dominance of the Ethernet segment can be attributed to several factors. Firstly, the increasing demand for high-speed data transmission and the rapid expansion of data centers have driven the adoption of Ethernet-based optical transceivers. With the growing volume of data being generated and consumed, there is a need for reliable and efficient connectivity solutions, and Ethernet-based transceivers provide the necessary bandwidth and speed. Secondly, the deployment of 5G networks and the increasing demand for bandwidth-intensive applications have further fueled the demand for Ethernet-based transceivers. 5G networks require high-speed and low-latency connectivity, and Ethernet-based transceivers are well-suited to meet these requirements. Additionally, the Ethernet protocol is widely used in enterprise networks for local area network (LAN) connectivity, making Ethernet-based transceivers a popular choice in this segment. Furthermore, the Ethernet segment benefits from the widespread adoption of Ethernet standards and the availability of a wide range of Ethernet-based transceiver form factors, such as SFP,

QSFP, and CFP, catering to different network requirements. Overall, the dominance of the Ethernet segment in the global optical transceiver market is expected to continue due to the increasing demand for high-speed data transmission, the deployment of 5G networks, and the widespread use of Ethernet in enterprise networks.

Data Rate Insights

In 2022, the 100 Gbps segment dominated the global optical transceiver market and is expected to maintain its dominance during the forecast period. The increasing demand for higher data rates and the growing adoption of bandwidth-intensive applications have driven the need for optical transceivers capable of supporting 100 Gbps data transmission. With the exponential growth of data consumption and the expansion of data centers, there is a significant requirement for faster and more efficient connectivity solutions. The 100 Gbps segment addresses this need by providing high-speed data transmission capabilities, enabling seamless communication and data transfer.

Additionally, advancements in fiber optic technology and the development of advanced modulation techniques have facilitated the deployment of 100 Gbps optical transceivers. These transceivers are widely used in various industries, including telecommunications, data centers, and cloud computing, where the demand for high-speed and high-capacity data transmission is critical. The dominance of the 100 Gbps segment is expected to continue as the demand for faster data rates and increased network capacity continues to grow in the coming years.

Application Insights

In 2022, the data center segment dominated the global optical transceiver market and is expected to maintain its dominance during the forecast period. Data centers serve as the backbone of the digital infrastructure, housing and processing vast amounts of data. With the increasing adoption of cloud computing, big data analytics, and other data-intensive applications, the demand for data centers has surged. Optical transceivers play a crucial role in connecting servers, switches, and storage devices within data centers, enabling high-speed data transmission and efficient network connectivity. The data center segment benefits from the need for high-performance optical transceivers that can handle the immense data traffic and provide reliable and efficient connectivity solutions. The deployment of advanced technologies such as 5G, artificial intelligence, and the Internet of Things has further increased the demand for data centers and, consequently, optical transceivers. These technologies require high-speed and low-latency connectivity, making optical transceivers essential components in data center infrastructure. Additionally, the continuous growth of cloud computing services and the

increasing adoption of virtualization technologies have contributed to the dominance of the data center segment. As the volume of data continues to grow and the demand for efficient data processing and storage increases, the data center segment is expected to maintain its dominance in the global optical transceiver market.

Regional Insights

The Asia-Pacific region dominated the global optical transceiver market and is expected to maintain its dominance during the forecast period. The Asia-Pacific region encompasses countries such as China, Japan, South Korea, India, and others, which are witnessing significant growth in various industries, including telecommunications, data centers, and enterprise networks. The dominance of the Asia-Pacific region can be attributed to several factors. Firstly, the region has a large population and a rapidly expanding middle class, driving the demand for high-speed internet connectivity and data services. This has led to substantial investments in telecommunications infrastructure, including the deployment of fiber optic networks, which in turn has fueled the demand for optical transceivers. Secondly, countries like China and South Korea are major manufacturing hubs for optical transceivers, with a strong presence of leading manufacturers in the region. This has contributed to the availability of a wide range of optical transceiver products at competitive prices, further driving market growth. Additionally, the Asia-Pacific region is witnessing significant growth in data center infrastructure, driven by the increasing adoption of cloud computing, big data analytics, and e-commerce. Data centers require high-speed and reliable connectivity, making optical transceivers a critical component in their network infrastructure. The region's focus on technological advancements, such as the deployment of 5G networks and the development of smart cities, further drives the demand for optical transceivers. With ongoing investments in telecommunications infrastructure, the presence of key market players, and the growing demand for data centers and high-speed connectivity, the Asia-Pacific region is expected to maintain its dominance in the global optical transceiver market during the forecast period.

Key Market Players

Cisco Systems Inc.

Finisar Corporation (Acquired by II-VI Incorporated)

Huawei Technologies Co., Ltd.

Lumentum Holdings Inc.

Broadcom Inc.

Fujitsu Optical Components Ltd.

Sumitomo Electric Industries, Ltd.

NeoPhotonics Corporation

Accelink Technologies Co., Ltd.

Innolight Technology Corporation

Source Photonics Inc.

Oclaro, Inc. (Acquired by Lumentum Holdings Inc.)

Ciena Corporation

Report Scope:

In this report, the Global Optical Transceiver Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Optical Transceiver Market, By Protocol:

Ethernet

Fiber Channel

CWDM/DWDM

FTTx

Optical Transceiver Market, By Data Rate:

Less than 10Gbps

10 Gbps to 40 Gbps

100 Gbps

Greater than 100 Gbps

Optical Transceiver Market, By Application:

Data Center

Telecommunication

Optical Transceiver Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Optical Transceiver Market.

Available Customizations:

Global Optical Transceiver market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL OPTICAL TRANSCEIVER MARKET

5. VOICE OF CUSTOMER

6. GLOBAL OPTICAL TRANSCEIVER MARKET OVERVIEW

7. GLOBAL OPTICAL TRANSCEIVER MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Protocol (Ethernet, Fiber Channel, CWDM/DWDM, FTTx)

7.2.2. By Data Rate (Less than 10Gbps, 10 Gbps to 40 Gbps, 100 Gbps, Greater than 100 Gbps)

7.2.3. By Application (Data Center, Telecommunication)

7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

7.3. By Company (2022)

7.4. Market Map

8. NORTH AMERICA OPTICAL TRANSCEIVER MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Protocol

8.2.2. By Data Rate

8.2.3. By Application

8.2.4. By Country

8.3. North America: Country Analysis

8.3.1. United States Optical Transceiver Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Protocol

8.3.1.2.2. By Data Rate

8.3.1.2.3. By Application

8.3.2. Canada Optical Transceiver Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Protocol

8.3.2.2.2. By Data Rate

8.3.2.2.3. By Application

8.3.3. Mexico Optical Transceiver Market Outlook

8.3.3.1. Market Size & Forecast

- 8.3.3.1.1. By Value
- 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Protocol
 - 8.3.3.2.2. By Data Rate
 - 8.3.3.2.3. By Application

9. EUROPE OPTICAL TRANSCEIVER MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Protocol
 - 9.2.2. By Data Rate
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. Europe: Country Analysis
 - 9.3.1. Germany Optical Transceiver Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Protocol
 - 9.3.1.2.2. By Data Rate
 - 9.3.1.2.3. By Application
 - 9.3.2. France Optical Transceiver Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Protocol
 - 9.3.2.2.2. By Data Rate
 - 9.3.2.2.3. By Application
 - 9.3.3. United Kingdom Optical Transceiver Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Protocol
 - 9.3.3.2.2. By Data Rate
 - 9.3.3.2.3. By Application
 - 9.3.4. Italy Optical Transceiver Market Outlook
 - 9.3.4.1. Market Size & Forecast

- 9.3.4.1.1. By Value
- 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Protocol
 - 9.3.4.2.2. By Data Rate
 - 9.3.4.2.3. By Application
- 9.3.5. Spain Optical Transceiver Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Protocol
 - 9.3.5.2.2. By Data Rate
 - 9.3.5.2.3. By Application
- 9.3.6. Belgium Optical Transceiver Market Outlook
 - 9.3.6.1. Market Size & Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share & Forecast
 - 9.3.6.2.1. By Protocol
 - 9.3.6.2.2. By Data Rate
 - 9.3.6.2.3. By Application

10. SOUTH AMERICA OPTICAL TRANSCEIVER MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Protocol
 - 10.2.2. By Data Rate
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Optical Transceiver Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Protocol
 - 10.3.1.2.2. By Data Rate
 - 10.3.1.2.3. By Application
 - 10.3.2. Colombia Optical Transceiver Market Outlook
 - 10.3.2.1. Market Size & Forecast

- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Protocol
 - 10.3.2.2.2. By Data Rate
 - 10.3.2.2.3. By Application
- 10.3.3. Argentina Optical Transceiver Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Protocol
 - 10.3.3.2.2. By Data Rate
 - 10.3.3.2.3. By Application
- 10.3.4. Chile Optical Transceiver Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Protocol
 - 10.3.4.2.2. By Data Rate
 - 10.3.4.2.3. By Application
- 10.3.5. Peru Optical Transceiver Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Protocol
 - 10.3.5.2.2. By Data Rate
 - 10.3.5.2.3. By Application

11. MIDDLE EAST & AFRICA OPTICAL TRANSCEIVER MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Protocol
 - 11.2.2. By Data Rate
 - 11.2.3. By Application
 - 11.2.4. By Country
- 11.3. Middle East & Africa: Country Analysis
 - 11.3.1. Saudi Arabia Optical Transceiver Market Outlook
 - 11.3.1.1. Market Size & Forecast

- 11.3.1.1.1. By Value
- 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Protocol
 - 11.3.1.2.2. By Data Rate
 - 11.3.1.2.3. By Application
- 11.3.2. UAE Optical Transceiver Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Protocol
 - 11.3.2.2.2. By Data Rate
 - 11.3.2.2.3. By Application
- 11.3.3. South Africa Optical Transceiver Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Protocol
 - 11.3.3.2.2. By Data Rate
 - 11.3.3.2.3. By Application
- 11.3.4. Turkey Optical Transceiver Market Outlook
 - 11.3.4.1. Market Size & Forecast
 - 11.3.4.1.1. By Value
 - 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Protocol
 - 11.3.4.2.2. By Data Rate
 - 11.3.4.2.3. By Application
- 11.3.5. Israel Optical Transceiver Market Outlook
 - 11.3.5.1. Market Size & Forecast
 - 11.3.5.1.1. By Value
 - 11.3.5.2. Market Share & Forecast
 - 11.3.5.2.1. By Protocol
 - 11.3.5.2.2. By Data Rate
 - 11.3.5.2.3. By Application

12. ASIA PACIFIC OPTICAL TRANSCEIVER MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Protocol
 - 12.1.2. By Data Rate

- 12.1.3. By Application
- 12.1.4. By Country
- 12.2. Asia-Pacific: Country Analysis
 - 12.2.1. China Optical Transceiver Market Outlook
 - 12.2.1.1. Market Size & Forecast
 - 12.2.1.1.1. By Value
 - 12.2.1.2. Market Share & Forecast
 - 12.2.1.2.1. By Protocol
 - 12.2.1.2.2. By Data Rate
 - 12.2.1.2.3. By Application
 - 12.2.2. India Optical Transceiver Market Outlook
 - 12.2.2.1. Market Size & Forecast
 - 12.2.2.1.1. By Value
 - 12.2.2.2. Market Share & Forecast
 - 12.2.2.2.1. By Protocol
 - 12.2.2.2.2. By Data Rate
 - 12.2.2.2.3. By Application
 - 12.2.3. Japan Optical Transceiver Market Outlook
 - 12.2.3.1. Market Size & Forecast
 - 12.2.3.1.1. By Value
 - 12.2.3.2. Market Share & Forecast
 - 12.2.3.2.1. By Protocol
 - 12.2.3.2.2. By Data Rate
 - 12.2.3.2.3. By Application
 - 12.2.4. South Korea Optical Transceiver Market Outlook
 - 12.2.4.1. Market Size & Forecast
 - 12.2.4.1.1. By Value
 - 12.2.4.2. Market Share & Forecast
 - 12.2.4.2.1. By Protocol
 - 12.2.4.2.2. By Data Rate
 - 12.2.4.2.3. By Application
 - 12.2.5. Australia Optical Transceiver Market Outlook
 - 12.2.5.1. Market Size & Forecast
 - 12.2.5.1.1. By Value
 - 12.2.5.2. Market Share & Forecast
 - 12.2.5.2.1. By Protocol
 - 12.2.5.2.2. By Data Rate
 - 12.2.5.2.3. By Application
 - 12.2.6. Indonesia Optical Transceiver Market Outlook

12.2.6.1. Market Size & Forecast

12.2.6.1.1. By Value

12.2.6.2. Market Share & Forecast

12.2.6.2.1. By Protocol

12.2.6.2.2. By Data Rate

12.2.6.2.3. By Application

12.2.7. Vietnam Optical Transceiver Market Outlook

12.2.7.1. Market Size & Forecast

12.2.7.1.1. By Value

12.2.7.2. Market Share & Forecast

12.2.7.2.1. By Protocol

12.2.7.2.2. By Data Rate

12.2.7.2.3. By Application

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Cisco Systems Inc.

15.1.1. Business Overview

15.1.2. Key Revenue and Financials

15.1.3. Recent Developments

15.1.4. Key Personnel/Key Contact Person

15.1.5. Key Product/Services Offered

15.2. Finisar Corporation (Acquired by II-VI Incorporated)

15.2.1. Business Overview

15.2.2. Key Revenue and Financials

15.2.3. Recent Developments

15.2.4. Key Personnel/Key Contact Person

15.2.5. Key Product/Services Offered

15.3. Huawei Technologies Co., Ltd.

15.3.1. Business Overview

15.3.2. Key Revenue and Financials

- 15.3.3. Recent Developments
- 15.3.4. Key Personnel/Key Contact Person
- 15.3.5. Key Product/Services Offered
- 15.4. Lumentum Holdings Inc.
 - 15.4.1. Business Overview
 - 15.4.2. Key Revenue and Financials
 - 15.4.3. Recent Developments
 - 15.4.4. Key Personnel/Key Contact Person
 - 15.4.5. Key Product/Services Offered
- 15.5. Broadcom Inc.
 - 15.5.1. Business Overview
 - 15.5.2. Key Revenue and Financials
 - 15.5.3. Recent Developments
 - 15.5.4. Key Personnel/Key Contact Person
 - 15.5.5. Key Product/Services Offered
- 15.6. Fujitsu Optical Components Ltd.
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel/Key Contact Person
 - 15.6.5. Key Product/Services Offered
- 15.7. Sumitomo Electric Industries, Ltd.
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel/Key Contact Person
 - 15.7.5. Key Product/Services Offered
- 15.8. NeoPhotonics Corporation
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel/Key Contact Person
 - 15.8.5. Key Product/Services Offered
- 15.9. Accelink Technologies Co., Ltd.
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel/Key Contact Person
 - 15.9.5. Key Product/Services Offered

15.10. Innolight Technology Corporation

15.10.1. Business Overview

15.10.2. Key Revenue and Financials

15.10.3. Recent Developments

15.10.4. Key Personnel/Key Contact Person

15.10.5. Key Product/Services Offered

15.11. Source Photonics Inc.

15.11.1. Business Overview

15.11.2. Key Revenue and Financials

15.11.3. Recent Developments

15.11.4. Key Personnel/Key Contact Person

15.11.5. Key Product/Services Offered

15.12. Oclaro, Inc. (Acquired by Lumentum Holdings Inc.)

15.12.1. Business Overview

15.12.2. Key Revenue and Financials

15.12.3. Recent Developments

15.12.4. Key Personnel/Key Contact Person

15.12.5. Key Product/Services Offered

15.13. Ciena Corporation

15.13.1. Business Overview

15.13.2. Key Revenue and Financials

15.13.3. Recent Developments

15.13.4. Key Personnel/Key Contact Person

15.13.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS**17. ABOUT US & DISCLAIMER**

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