World Active Optical Cable Market - Opportunities and Forecasts, 2015-2022

Description: An active optical cable (AOC) is a cabling technology that uses optical fiber between the connectors to improve the cable's performance. There is a rise in demand for AOC as it serves as an alternative to copper cable due to its various advantages such as small bend radius for easy installment, low power consumption, and lightweight. Applications of these cables have expanded, from high-performance computers to networking and storage with the support of many protocols. In addition, AOCs rely on different protocols, such as InfiniBand, USB, and Ethernet, for data transmission. The active optical cable market was valued at $481.3 million in 2015. Furthermore, the active optical cable market is projected to generate about $3,480.7 million registering a CAGR of 32.7% from 2016 to 2022. Certain segments such as PCI Express (PCIe), Serial Attached SCSI (SAS) and Thunderbolt are increasing the market size and generating potential customers for the sector worldwide.

Major factors supplementing the growth of the market are increasing bandwidth requirements and huge data center deployments, in addition to rising adoption of virtualization and cloud-based services. On the other hand, major challenges faced by the industry include high implementation cost of AOCs and their vulnerability to physical damage and transmission losses. Improved connectivity in emerging countries is expected to create greater opportunities for growth in the future.

The active optical cable market is segmented on the basis of protocol, connector, application, and geography. The protocol segment is further categorized into InfiniBand, Ethernet, HDMI, DisplayPort, USB, and others (Thunderbolt and PCI Express). Currently, the InfiniBand segment holds significant share in the overall market, owing to its increasing usage in commercial applications such as data centers and high-performance computing. The connector segment is divided into QSFP, CXP, CDFP, CFP, SFP, and others (CX4 and mixed connectors). Among the connector segment, QSFP and CXP accounted for the maximum share in 2015. The application segment includes data center, high-performance computing, personal computer, digital signage, consumer electronics, and others (transport, telecom cable, medical, airport, aircrafts, and ships). In the year 2015, data center contributed the highest revenue share, accounting for around 50% of the overall market revenue.

Based on geography, the market is segmented into North America, Europe, Asia-Pacific, and LAMEA. North America is bifurcated into U.S., Mexico, and Canada, whereas Europe into UK, Russia, Germany, The Netherlands, France, and rest of Europe. The countries covered under Asia-Pacific are China, India, Japan, Australia, Singapore, and rest of Asia-Pacific, while LAMEA includes Latin America, Middle East, and Africa. In addition, the report covers country-wise cross-sectional analysis of the protocol, connector, and application segments.


POTENTIAL BENEFITS FOR STAKEHOLDERS

- Comprehensive analysis of the world active optical cable market is provided.
- The report provides a competitive scenario of the market with current trends, future estimations, structure, driving factors, scope, opportunities, and challenges.
- The report includes a detailed analysis of the market segments to provide insights on the market dynamics.
- Porter's Five Forces analysis highlights the potential of buyers and suppliers as well as provides insights on the competitive structure of the market to devise effective growth strategies and facilitate better decision-making.
- Value chain analysis provides key inputs on the role of stakeholders involved at various stages.
- SWOT analysis of the key players highlights their strengths and weaknesses along with potential opportunities.

ACTIVE OPTICAL CABLE MARKET SEGMENTATION

The market is segmented on the basis of protocol, connector, application, and geography.
BY PROTOCOL

- InfiniBand
- Ethernet
- HDMI
- DisplayPort
- USB
- Others (Thunderbolt and PCI Express)

BY CONNECTOR

- QSFP
- CXP
- CDFP
- CFP
- SFP
- Others (CX4 and Mixed Connectors)

BY APPLICATION

- Data Center
- High-Performance Computing
- Personal Computer
- Digital Signage
- Consumer Electronics
- Others (Transport, Telecom Cable, Medical, Airport, Aircrafts, and Ships)

BY GEOGRAPHY

North America
- U.S.
- Mexico
- Canada
Europe
- UK
- Germany
- Russia
- Netherlands
- France
- Rest of Europe
Asia-Pacific
- China
- India
- Japan
- Australia
- Singapore
- Rest of Asia-Pacific
LAMEA
- Latin America
- Middle East
- Africa

KEY PLAYERS

- Finisar Corporation
- Seimon
- Avago Technologies
- Viavi Solutions Inc.
- Sumitomo Electric Industries, Ltd.
- IBM Corporation
- 3M
- Fujitsu
Chapter 1: INTRODUCTION
1.1 Report description
1.2 Key benefits
1.3 Key market segments
1.4 Research methodology
1.4.1 Secondary research
1.4.2 Primary research
1.4.3 Analyst tools and models

Chapter 2: EXECUTIVE SUMMARY
2.1 CXO perspective

Chapter 3: MARKET OVERVIEW
3.1 Market definition and scope
3.2 Key Findings
3.2.1 Top impacting factor
3.2.2 Top winning strategies
3.2.3 Top investment pockets
3.3 Value chain analysis
3.4 Porters five forces analysis
3.5 Market share analysis, 2015
3.6 Drivers
3.6.1 Increasing demand for higher bandwidth
3.6.2 Growing demand for active optical cable in data center
3.6.3 Shift of the telecom sector towards faster optical networks
3.6.4 Increasing investments by governments to improve connectivity within the region
3.7 Restraints
3.7.1 High initial investment associated with the active optical cable
3.7.2 Challenges from optical network security fiber hack
3.8 Opportunities
3.8.1 Advancement in fiber optics technology

Chapter 4: WORLD ACTIVE OPTICAL CABLE MARKET, BY CONNECTOR
4.1 Introduction
4.1.1 Market size and forecast
4.2 QSFP
4.2.1 Market size and forecast
4.3 CXP
4.3.1 Market size and forecast
4.4 CDFP
4.4.1 Market size and forecast
4.5 CFP
4.5.1 Market size and forecast
4.6 SFP
4.6.1 Market size and forecast
4.7 Others (CX4 and mixed connectors)
4.7.1 Market size and forecast

Chapter 5: WORLD ACTIVE OPTICAL CABLE MARKET, BY PROTOCOL
5.1 Introduction
5.1.1 Market size and forecast
5.2 InfiniBand
5.2.1 Key market trends
5.2.2 Key drivers and opportunities
5.2.3 Market size and forecast
5.3 Ethernet
5.3.1 Key market trends
5.3.2 Key drivers and opportunities
5.3.3 Market size and forecast
5.4 HDMI
5.4.1 Key market trends
5.4.2 Key drivers and opportunities
5.4.3 Market size and forecast
5.5 Displayport
5.5.1 Key market trends
5.5.2 Key drivers and opportunities
5.5.3 Market size and forecast
5.6 USB
5.6.1 Key market trends
5.6.2 Key drivers and opportunities
5.6.3 Market size and forecast
5.7 Others (Thunderbolt and PCI Express)
5.7.1 Key market trends
5.7.2 Key drivers and opportunities
5.7.3 Market size and forecast

Chapter: 6 WORLD ACTIVE OPTICAL CABLE MARKET, BY APPLICATION
6.1 Introduction
6.1.1 Market size and forecast
6.2 Data center
6.2.1 Market size and forecast
6.3 High performance computing
6.3.1 Market size and forecast
6.4 Personal computer
6.4.1 Market size and forecast
6.5 Digital signage
6.5.1 Market size and forecast
6.6 Consumer electronics
6.6.1 Market size and forecast
6.7 Others (transport, telecom cable, medical, airport, aircrafts and ships)
6.7.1 Market size and forecast

Chapter: 7 WORLD ACTIVE OPTICAL CABLE MARKET, BY GEOGRAPHY
7.1 Introduction
7.2 North America
7.2.1 Key market trends
7.2.2 Key drivers and opportunities
7.2.3 Market size and forecast
7.2.4 U.S.
7.2.5 Canada
7.2.6 Mexico
7.3 Europe
7.3.1 Key market trends
7.3.2 Key drivers and opportunities
7.3.3 Market size and forecast
7.3.4 UK
7.3.5 Russia
7.3.6 Germany
7.3.7 Netherlands
7.3.8 France
7.3.9 Rest of the Europe
7.4 Asia-Pacific
7.4.1 Key market trends
7.4.2 Key drivers and opportunities
7.4.3 Market size and forecast
7.4.4 China
7.4.5 India
7.4.6 Japan
7.4.7 Australia
7.4.8 Singapore
7.4.9 Rest of Asia-Pacific
7.5 LAMEA
7.5.1 Key market trends
7.5.2 Key drivers and opportunities
7.5.3 Market size and forecast
7.5.4 Latin America
7.5.5 Middle East
7.5.6 Africa

Chapter: 8 COMPANY PROFILE
8.1 Finisar Corporation
  8.1.1 Company overview
  8.1.2 Company snapshot
  8.1.3 Business performance
  8.1.4 Strategy move and development
  8.1.5 SWOT analysis of Finisar Corporation
8.2 Avago technologies
  8.2.1 Company overview
  8.2.2 Company snapshot
  8.2.3 Business performance
  8.2.4 Strategy move and development
  8.2.5 SWOT analysis of Avago technologies
8.3 3M
  8.3.1 Company overview
  8.3.2 Company snapshot
  8.3.3 Business performance
  8.3.4 Strategy move and development
  8.3.5 SWOT analysis of 3M
8.4 International Business Machines Corporation (IBM)
  8.4.1 Company overview
  8.4.2 Company snapshot
  8.4.3 Business performance
  8.4.4 Strategy move and development
  8.4.5 SWOT analysis of IBM Corporation
8.5 Amphenol Corporation
  8.5.1 Company overview
  8.5.2 Company snapshot
  8.5.3 Business performance
  8.5.4 Strategy move and development
  8.5.5 SWOT analysis of Amphenol Corporation
8.6 Sumitomo Electric Industries, Ltd.
  8.6.1 Company overview
  8.6.2 Company snapshot
  8.6.3 Business performance
  8.6.4 Strategy move and development
  8.6.5 SWOT analysis of Sumitomo Electric Industries, Ltd.
8.7 Viavi Solutions Inc.
  8.7.1 Company overview
  8.7.2 Company snapshot
  8.7.3 Business performance
  8.7.4 Strategy move and development
  8.7.5 SWOT analysis of Viavi Solutions Inc.
8.8 Siemon
  8.8.1 Company overview
  8.8.2 Company snapshot
  8.8.3 Strategy move and development
  8.8.4 SWOT analysis of Siemon
8.9 Fujitsu
  8.9.1 Company overview
  8.9.2 Company snapshot
  8.9.3 Business performance
  8.9.4 Strategy move and development
  8.9.5 SWOT analysis of Fujitsu
8.10 Oclaro, Inc.
  8.10.1 Company overview
8.10.2 Company snapshot
8.10.3 Business performance
8.10.4 Strategy move and development
8.10.5 SWOT analysis of Oclaro, Inc.

Table 1 World Active Optical Cable Market, By Geography, 2015-2022 ($Million)
Table 2 Properties Of Copper And Fiber Cable
Table 3 World Active Optical Cable Market, By Connector, 2015-2022 ($Million)
Table 4 World Qsfp Market By Geography, 2015-2022 ($Million)
Table 5 World Cxp Market By Geography, 2015-2022 ($Million)
Table 6 World Cdfp Market By Geography, 2015-2022 ($Million)
Table 7 World Cfp Market By Geography, 2015-2022 ($Million)
Table 8 World Sfp Market By Geography, 2015-2022 ($Million)
Table 9 World Others (Cx4 And Mixed Connectors) Market By Geography, 2015-2022 ($Million)
Table 10 World Active Optical Cable Market, By Protocol, 2015-2022 ($Million)
Table 11 World Infiniband Market By Geography, 2015-2022 ($Million)
Table 12 World Ethernet Market By Geography, 2015-2022 ($Million)
Table 13 World Hdmi Market By Geography, 2015-2022 ($Million)
Table 14 World Displayport Market By Geography, 2015-2022 ($Million)
Table 15 World Usb Market By Geography, 2015-2022 ($Million)
Table 16 World (Thunderbolt And Pci Express) Market By Geography, 2015-2022 ($Million)
Table 17 World Active Optical Cable Market, By Application, 2015-2022 ($Million)
Table 18 World Data Center Market By Geography, 2015-2022 ($Million)
Table 19 World High Performance Computing Market By Geography, 2015-2022 ($Million)
Table 20 World Personal Computer Market By Geography, 2015-2022 ($Million)
Table 21 World Digital Signage Market By Geography, 2015-2022 ($Million)
Table 22 World Consumer Electronics Market By Geography, 2015-2022 ($Million)
Table 23 World Others (Transport, Telecom Cable, Medical, Airport, Aircrafts, Ships) Market By Geography, 2015-2022 ($Million)
Table 24 North America Active Optical Cable Market By Protocol, 2015-2022 ($Million)
Table 25 Europe Active Optical Cable Market By Protocol, 2015-2022 ($Million)
Table 26 Asia-Pacific Active Optical Cable Market By Protocol, 2015-2022 ($Million)
Table 27 Lamea Active Optical Cable Market By Protocol, 2015-2022 ($Million)
Table 28 Finisar Corporation Snapshot
Table 29 Avago Technologies Snapshot
Table 30 3M Snapshot
Table 31 Ibm Corporation Snapshot
Table 32 Amphenol Corporation Snapshot
Table 33 Sumitomo Electric Industries, Ltd. Snapshot
Table 34 Viavi Solutions Inc. Snapshot
Table 35 Siemon Snapshot
Table 36 Fujitsu Snapshot
Table 37 Oclaro, Inc. Snapshot

Fig 1 Top Impacting Factors
Fig 2 Top Winning Strategies In The Active Optical Cable Market (2013-2015)
Fig 3 Top Winning Strategies (Percentage Comparison) (2013-2015)
Fig 4 Top Investment Pockets
Fig 5 Active Optical Cable Market Value Chain
Fig 6 Market Share Analysis Of Active Optical Cable Market, 2015
Fig 7 Bandwidth Comparison Of Optical Fiber And Copper Wire
Fig 8 Worldwide Information Technology (It) Spending On Data Centers, 2013-2020
Fig 9 Adoption Of Optical Network By Industry Verticals
Fig 10 Optical Network Security Fiber Hacking
Fig 11 World Active Optical Cable Market Revenue By Connector, 2015 & 2022 (% Share)
Fig 12 Comparative Regional Market Share Analysis Of Qsfp Market, 2015 & 2022 (%)
Fig 13 World Qsfp Market Revenue, 2015-2022 ($Million)
Fig 14 World Qsfp Market Share Analysis By Geography, 2015-2022 (%)
Fig 15 Comparative Regional Market Share Analysis Of Cxp Market, 2015 & 2022 (%)
Fig 16 World Cxp Market Revenue, 2015-2022 ($Million)
Fig 17 World Cxp Market Share Analysis By Geography, 2015-2022 (%)
Fig 18 Comparative Regional Market Share Analysis Of Cdfp Market, 2015 & 2022 (%)
Fig 19 World Cdfp Market Revenue, 2015-2022 ($Million)
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