

Active Optical Cable Market: Trends, Opportunities and Competitive Analysis

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Abstracts

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Active Optical Cable Market Trends and Forecast

The future of the active optical cable market looks attractive with opportunities in the data center, high performance computing, consumer electronics, telecommunication, and other applications. The global active optical cable market is expected to reach an estimated \$3.6 billion by 2027 with a CAGR of 14.9% from 2021 to 2027. The major growth drivers for this market are increasing internet traffic throughout the world, growth in high performance computing, and increasing penetration of active optical cables in consumer electronic devices.

Emerging Trends in the Active Optical Cable Market

Emerging trends, which have a direct impact on the dynamics of the industry, include increasing trend towards development of active optical cables with ultra-small form factors and increased transmission density, increasing demand for optical modules with reduced dimensions and increased port density, and deployment of active optical cables in consumer electronic devices such as mobile phones, notebooks and others.

A total of 99 figures / charts and 90 tables are provided in this 218-page report to help in your business decisions. Sample figures with insights are shown below. To learn the scope of benefits, companies researched, and other details of the active optical cable market report, please download the report brochure.

Active Optical Cable Market by Segment

The study includes a forecast for the global active optical cable market by protocol type, application, form factor type, speed type, and region as follows:

By Protocol Type [\$M shipment analysis for 2016 – 2027]:

- Ethernet
- InfiniBand
- HDMI
- PCI Express (PCIe)
- Thunderbolt
- Others

By Application [\$M shipment analysis for 2016-2027]:

- Data Center
- High Performance Computing
- Consumer Electronics
- Telecommunication
- Others

By Form Factor [Volume (Thousand Units) and \$M shipment analysis for 2016-2027]:

- QSFP
- CXP
- CFP

SFP

CX4

Others

By Speed type [\$M shipment analysis for 2016-2027]:

Less than 40G

40G and 100G

Above 100G

By Region [Volume (Thousand Units) and \$M shipment analysis for 2016-2027]:

North America

Europe

Asia Pacific

Rest of the World

List of Active Optical Cable Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies active optical cable companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the active optical cable companies profiled in this report includes.

Finisar Corporation

FIT-Foxconn (Avago Technologies)

Amphenol ICC

3M

Hitachi Cables America.

Koch Industries

Shenzhen Gigalight Technology Co., Ltd.

Mellanox Technologies

Samtec, Inc.,

The Siemon Company

Cosemi Technologies Inc.

Chromis Fiberoptics

Sumitomo Electric Industries

Active Optical Cable Market Insight

Lucintel forecasts that Ethernet active optical cable will remain the largest protocol type and it is also expected to witness the highest growth due to the increasing usage of active optical cables for high performance computing and growth in inter and intra rack connectivity within a data center.

Data center will remain the largest application and it is also expected to witness highest growth due to increasing demand for high speed connectivity between switch racks and server racks. The increasing migration of networks from 3-tier to 2-tier in data center architecture, will lead to growing deployment of active optical cable to support high data traffic rate and fast signal transmission.

Quad small form-factor pluggable (QSFP), C form-factor pluggable (CFP), small form-factor pluggable (SFP), 10 gigabit small form factor pluggable (XFP), and other form factor type active optical cables are used for the high speed data transmission. QSFP will remain the largest segment; it is also expected to witness the highest growth because of its ability to support a wide range of data rates up to 400G.

North America is expected to remain the largest market due to the presence of mega data centers of technology giants such as, Google, Facebook, IBM, and Microsoft. Asia Pacific will experience the highest growth over the forecast period supported by growth in data centers, high performance computing, and consumer electronic devices.

Features of Active Optical Cable Market

Market Size Estimates: Active optical cable market size estimation in terms of value (\$M)

Trend and Forecast Analysis: Market trends (2016-2021) and forecast (2022-2027) by various segments and regions.

Segmentation Analysis: Market size by protocol type, application, form factor, and speed type

Regional Analysis: Active optical cable market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different protocol type, application, form factor, speed type, and regions for the active optical cable market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the active optical cable market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the active optical cable market size?

Answer: The global active optical cable market is expected to reach an estimated \$3.6 billion by 2027

Q2. What is the growth forecast for active optical cable market?

Answer: The active optical cable market is expected to grow at a CAGR of 14.9% from 2021 to 2027.

Q3. What are the major drivers influencing the growth of the active optical cable market?

Answer: The major growth drivers for this market are increasing internet traffic throughout the world, growth in high performance computing, and increasing penetration of active optical cables in consumer electronic devices.

Q4. What are the major applications or end use industries for active optical cable?

Answer: Data center will remain the largest application and it is also expected to witness highest growth due to increasing demand for high speed connectivity between switch racks and server racks.

Q5. What are the emerging trends in active optical cable market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, include use of hyaluronic acid and retinols for anti-aging properties, micellar waters for water management, cannabis skincare as antioxidants, and probiotic skincare for delivering good bacteria to the skin.

Q6. Who are the key active optical cable companies?

Answer: Some of the key active optical cable companies are as follows:

Finisar Corporation

FIT-Foxconn (Avago Technologies)

Amphenol ICC

3M

Hitachi Cables America.

Koch Industries

Shenzhen Gigalight Technology Co., Ltd.

Mellanox Technologies

Samtec, Inc.,

The Siemon Company

Cosemi Technologies Inc.

Chromis Fiberoptics

Sumitomo Electric Industries

Q7. Which active optical cable product segment will be the largest in future?

Answer: Lucintel forecasts that Ethernet active optical cable will remain the largest protocol type and it is also expected to witness the highest growth due to the increasing usage of active optical cables for high performance computing and growth in inter and intra rack connectivity within a data center.

Q8. In active optical cable market, which region is expected to be the largest in next 5 years?

Answer: Asia Pacific is expected to remain the largest region and witness the highest growth over next 5 years

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the global active optical cable market by protocol type (Ethernet, InfiniBand, HDMI, PCI Express (PCIe), Thunderbolt, Others), application (Data Center, High Performance Computing, Consumer Electronics, Telecommunication others), form factor type (QSFP, CXP, CFP, SFP, CX4, and others), speed type (Less than 40G, 40G and 100G, Above 100G) and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are the emerging trends in this market and the reasons behind them?

Q.7 What are the changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

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- 7.4: 3M Company (3M Interconnect Solutions)
- 7.5: Hitachi, Ltd. (Hitachi Cables America)
- 7.6: Koch Industries (Molex Incorporated)
- 7.7: Shenzhen Gigalight Technology Co., Ltd.
- 7.8: Mellanox Technologies
- 7.9: Samtec, Inc.,
- 7.10: The Siemon Company (Siemon Interconnect Solutions)
- 7.11: Cosemi Technologies Inc.
- 7.12: Chromis Fiberoptics
- 7.13: Sumitomo Electric Industries

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