

Active Optical Cable Market Size, Share & Trends Analysis Report By Form Factor (QSFR, SFP), By Application (High-performance Computing (HPC), Consumer Electronics), By Protocol, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Active Optical Cable Market Size & Trends

The global active optical cable market size was estimated at USD 3.97 billion in 2023 and is expected to grow at a CAGR 12.6% from 2024 to 2030. The higher reliability of active optical cables compared to traditional copper cables, along with the widespread adoption of cloud-based services, is driving market growth during the forecast period. In addition, factors such as digitalization and the rollout of 5G networks present significant growth opportunities for the market.

The superior reliability of active optical cables over traditional copper cables, combined with the extensive adoption of cloud-based services, is propelling market growth during the forecast period. Furthermore, digitalization and the rollout of 5G networks offer significant growth opportunities for the market. Moreover, the widespread adoption of 4K and 8K Video Technologies is fueling the market growth. 4K and 8K video technologies have become prevalent in industries like medical imaging, gaming, broadcasting, and digital signage, leading to a substantial rise in the demand for high data rates and extended transmission distances. To meet these needs, Active optical cables have become essential solutions. These progressed optical interconnects offer seamless and reliable transmission of high-resolution video signals over long distances, ensuring the quality and integrity of the

vide%li%content.

Global Active Optical Cable Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 t%li%2030. For this study, Grand View Research has segmented the global active optical cable market report based on form factor, application, protocol, and region:

Form Factor Outlook (Revenue, USD Million, 2018 - 2030)

QSFP

QSFP-DD OSPF/CFP8/COBO

SFP

SFP+

PCIE

CXP

CX4

CFP

CDFP

Other

Application Outlook (Revenue, USD Million, 2018 - 2030)

Data Centers

High-performance Computing (HPC)

Consumer Electronics

Telecommunications

Industrial

Energy

Oil & Gas

Medical

Military/Aerospace

Other Applications

Protocol Outlook (Revenue, USD Million, 2018 - 2030)

InfiniBand

Ethernet

Serial Attached SCSI (SAS)

DisplayPort

PCI Express (PCIe)

HDMI

Thunderbolt

USB

MIPI

Fiber Channel

Other Protocols

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

Kingdom of Saudi Arabia

UAE

South Africa

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