

Global Active Cables (DAC?AOC?AEC) Market Growth 2023-2029

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Abstracts

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According to our (LP Info Research) latest study, the global Active Cables (DAC?AOC?AEC) market size was valued at US\$ million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Active Cables (DAC?AOC?AEC) is forecast to a readjusted size of US\$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Active Cables (DAC?AOC?AEC) market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Active Cables (DAC?AOC?AEC) are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Active Cables (DAC?AOC?AEC). Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Active Cables (DAC?AOC?AEC) market.

Active cables refer to cables that incorporate active electronics within the cable assembly to enhance or extend their performance characteristics. There are several types of active cables, each with its own specific purpose and technology:

DAC (Direct Attach Copper) Cables: DAC cables are high-speed data cables with integrated active electronics, typically used for short-distance connections within data centers and networking environments. They are commonly used to connect switches, routers, servers, and storage devices. DAC cables use copper conductors to transmit

electrical signals, and the integrated electronics help to boost signal integrity and reduce signal degradation over short distances.

AOC (Active Optical Cables): AOCs are cables that use optical fiber for transmitting data signals over longer distances compared to traditional copper cables. AOCs integrate active optical components, such as lasers and photodiodes, within the cable ends to convert electrical signals into optical signals and vice versa. These cables are used for applications requiring high data rates and low latency, such as data center interconnects, high-performance computing, and video streaming.

AEC (Active Ethernet Cables): AECs are similar to AOCs but are specifically designed for Ethernet networking applications. They combine the benefits of optical fibers with the convenience of Ethernet connectivity. AECs can transmit data over longer distances and are often used in scenarios where traditional Ethernet cables would suffer from signal degradation or where electromagnetic interference is a concern.

The Global Mobile Economy Development Report 2023 released by GSMA Intelligence pointed out that by the end of 2022, the number of global mobile users would exceed 5.4 billion. The mobile ecosystem supports 16 million jobs directly and 12 million jobs indirectly.

According to our Communications Research Centre, in 2022, the global communication equipment was valued at US\$ 100 billion. The U.S. and China are powerhouses in the manufacture of communications equipment. According to data from the Ministry of Industry and Information Technology of China, the cumulative revenue of telecommunications services in 2022 was ?1.58 trillion, an increase of 8% over the previous year. The total amount of telecommunications business calculated at the price of the previous year reached ?1.75 trillion, a year-on-year increase of 21.3%. In the same year, the fixed Internet broadband access business revenue was ?240.2 billion, an increase of 7.1% over the previous year, and its proportion in the telecommunications business revenue decreased from 15.3% in the previous year to 15.2%, driving the telecommunications business revenue to increase by 1.1 percentage points.

Key Features:

The report on Active Cables (DAC?AOC?AEC) market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Active Cables (DAC?AOC?AEC) market. It may include historical data, market segmentation by Type (e.g., DAC (Direct Attach Copper Cables), AOC (Active Optical Cables)), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Active Cables (DAC?AOC?AEC) market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Active Cables (DAC?AOC?AEC) market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Active Cables (DAC?AOC?AEC) industry. This include advancements in Active Cables (DAC?AOC?AEC) technology, Active Cables (DAC?AOC?AEC) new entrants, Active Cables (DAC?AOC?AEC) new investment, and other innovations that are shaping the future of Active Cables (DAC?AOC?AEC).

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Active Cables (DAC?AOC?AEC) market. It includes factors influencing customer ' purchasing decisions, preferences for Active Cables (DAC?AOC?AEC) product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Active Cables (DAC?AOC?AEC) market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Active Cables (DAC?AOC?AEC) market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Active Cables (DAC?AOC?AEC) market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Active Cables (DAC?AOC?AEC) industry. This includes projections of market size, growth rates, regional trends, and

predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report concludes with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Active Cables (DAC/AOC/AEC) market.

Market Segmentation:

Active Cables (DAC/AOC/AEC) market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

DAC (Direct Attach Copper Cables)

AOC (Active Optical Cables)

AEC (Active Ethernet Cables)

Segmentation by application

Data Centers

High-Performance Computing (HPC)

Consumer Electronics

Industrial Automation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Amphenol

NVIDIA

Coherent

Sumitomo Electric Industries

Mobix Labs

Panduit

Molex

TE Connectivity

Siemon

BizLink Technology

Credo

Vitex

Smartoptics

Marvell

Point2 Technology

Approved Networks

Key Questions Addressed in this Report

What is the 10-year outlook for the global Active Cables (DAC?AOC?AEC) market?

What factors are driving Active Cables (DAC?AOC?AEC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Active Cables (DAC?AOC?AEC) market opportunities vary by end market size?

How does Active Cables (DAC?AOC?AEC) break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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