

Global AEC Active Cable for Data Centers Market Growth 2026-2032

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Abstracts

The global AEC Active Cable for Data Centers market size is predicted to grow from US\$ 790 million in 2025 to US\$ 3646 million in 2032; it is expected to grow at a CAGR of 22.8% from 2026 to 2032.

In 2025, global AEC Active Cable for Data Centers production reached approximately 1600.9 k units with an average global market price of around US\$ 504.5 per unit. The production capacity for AEC Active Cable for Data Centers in 2025 was approximately 1700 k units. The typical gross profit margin for AEC Active Cable for Data Centers is between 20% and 40%. AEC (Active Electrical Cable) is a high-speed copper interconnect solution for data centers that integrates active signal-conditioning components—such as equalizers, retimers, or DSPs—inside the cable connectors. By enhancing signal integrity, AEC extends the reach of copper cables beyond passive DAC limits while retaining advantages in power efficiency, latency, and cost. AEC is widely used for short- to medium-reach connections between servers, switches, and accelerators, supporting 400G, 800G, and future higher-speed interfaces.

The AEC market in data centers is expanding rapidly, driven by the deployment of AI servers, HPC systems, and 400G/800G switching architectures. Compared with optical transceivers and AOCs, AEC offers clear advantages in cost and power consumption for typical short- to mid-reach applications (approximately 2–7 meters), making it an attractive solution for intra-rack and adjacent-rack connectivity. Demand is primarily driven by hyperscale cloud service providers and large AI clusters, and the market is expected to grow steadily as SerDes speeds increase and copper interconnect technologies continue to advance.

LP Information, Inc. (LPI) ' newest research report, the “AEC Active Cable for Data

Centers Industry Forecast” looks at past sales and reviews total world AEC Active Cable for Data Centers sales in 2025, providing a comprehensive analysis by region and market sector of projected AEC Active Cable for Data Centers sales for 2026 through 2032. With AEC Active Cable for Data Centers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AEC Active Cable for Data Centers industry.

This Insight Report provides a comprehensive analysis of the global AEC Active Cable for Data Centers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AEC Active Cable for Data Centers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AEC Active Cable for Data Centers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AEC Active Cable for Data Centers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AEC Active Cable for Data Centers.

This report presents a comprehensive overview, market shares, and growth opportunities of AEC Active Cable for Data Centers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

QSFP28 AEC

QSFP56 AEC

QSFP112 / OSFP AEC

Others

Segmentation by Cable Length:

Short-range AEC: 2–3 m

Medium-range AEC: 3–5 m

Long-range AEC: 5–7 m

Segmentation by Channel Architecture:

400G

800G

Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

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 analysing the company's coverage, product portfolio, its market penetration.

Molex

Amphenol

TE Connectivity

Volex

JPC Connectivity

Credo

Infraeo

Approved Networks (Legrand)

Luxshare Precision

Zhaolong Interconnect

10Gtek

Broadex Technologies

C-FLINK Technology

Shenzhen HTD Information-Tech

Key Questions Addressed in this Report

What is the 10-year outlook for the global AEC Active Cable for Data Centers market?

What factors are driving AEC Active Cable for Data Centers market growth, globally and by region?

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

How do AEC Active Cable for Data Centers market opportunities vary by end market size?

How does AEC Active Cable for Data Centers break out by Type, by Application?

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