

# Global Active Electrical Cable (AEC) Modules Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Active Electrical Cable (AEC) Modules market size is expected to reach \$ 3591 million by 2032, rising at a market growth of 21.5% CAGR during the forecast period (2026-2032).

In 2025, global Active Electrical Cable (AEC) Modules production reached approximately 1600.9 k units with an average global market price of around US\$ 504.5 per unit. The production capacity for Active Electrical Cable (AEC) Modules in 2025 was approximately 1700 k units. The typical gross profit margin for Active Electrical Cable (AEC) Modules is between 20% and 40%.

Active Electrical Cable (AEC) modules are high-speed interconnect components that integrate copper cabling with embedded signal conditioning electronics, such as retimers or re-drivers, and are enclosed in standard transceiver-style pluggable modules (e.g., QSFP-DD, OSFP). They are designed for medium-reach, low-latency, and cost-effective data transmission—typically up to 5-7 meters—in AI data centers, high-performance computing (HPC), and cloud infrastructure.

Active Electrical Cable (AEC) modules are high-speed copper interconnect solutions that integrate active signal-conditioning chips—such as retimers or linear drivers—at both cable ends. They are widely used in data centers, AI servers, and high-performance computing (HPC) systems to enable short- to mid-reach data transmission at 400G, 800G, and higher speeds. Compared with passive DACs, AECs significantly improve signal integrity through active equalization, amplification, and jitter compensation, extending reach while retaining the low latency, lower power consumption, and cost advantages of copper, positioning AECs as a key interconnect option between DAC and AOC.

The AEC modules market is experiencing rapid growth driven by the expansion of AI servers, high-speed Ethernet (400G/800G), and hyperscale cloud data centers. As bandwidth density within and between racks continues to increase, traditional passive

DACs face limitations in reach and signal integrity, positioning AECs as a cost-effective solution with extended reach for data rates above 400G. Demand is primarily fueled by hyperscale data centers, AI training clusters, and HPC systems, with key ecosystem participants including connector manufacturers, cable suppliers, and high-speed SerDes and retimer chip vendors. Overall, the market remains in a fast adoption and penetration phase.

This report studies the global Active Electrical Cable (AEC) Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Active Electrical Cable (AEC) Modules and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Active Electrical Cable (AEC) Modules that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Active Electrical Cable (AEC) Modules total production and demand, 2021-2032, (K Units)

Global Active Electrical Cable (AEC) Modules total production value, 2021-2032, (USD Million)

Global Active Electrical Cable (AEC) Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Active Electrical Cable (AEC) Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Active Electrical Cable (AEC) Modules domestic production, consumption, key domestic manufacturers and share

Global Active Electrical Cable (AEC) Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Active Electrical Cable (AEC) Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Active Electrical Cable (AEC) Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Active Electrical Cable (AEC) Modules market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Molex, Amphenol, TE Connectivity, Volex, JPC Connectivity, Credo, Infraeo, Approved Networks (Legrand), Luxshare Precision, Zhaolong Interconnect, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Active Electrical Cable (AEC) Modules market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Active Electrical Cable (AEC) Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Active Electrical Cable (AEC) Modules Market, Segmentation by Type:

QSFP28 AEC

QSFP56 AEC

QSFP112 / OSFP AEC

Others

Global Active Electrical Cable (AEC) Modules Market, Segmentation by Cable Length:

Short-range AEC: 2?3 m

Medium-range AEC: 3?5 m

Long-range AEC: 5?7 m

Global Active Electrical Cable (AEC) Modules Market, Segmentation by Transmission Rate:

400G

800G

Global Active Electrical Cable (AEC) Modules Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

**Companies Profiled:**

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 Answered:**

1. How big is the global Active Electrical Cable (AEC) Modules market?
2. What is the demand of the global Active Electrical Cable (AEC) Modules market?
3. What is the year over year growth of the global Active Electrical Cable (AEC) Modules market?
4. What is the production and production value of the global Active Electrical Cable (AEC) Modules market?
5. Who are the key producers in the global Active Electrical Cable (AEC) Modules market?
6. What are the growth factors driving the market demand?

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