

Global AI Data Center 800G Active Electrical Cable (AEC) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Data Center 800G Active Electrical Cable (AEC) market size was valued at US\$ 371 million in 2025 and is forecast to a readjusted size of US\$ 1156 million by 2032 with a CAGR of 16.4% during review period.

In 2025, global AI Data Center 800G Active Electrical Cable (AEC) production reached approximately 600.9 k units with an average global market price of around US\$ 600 per unit. The production capacity for AI Data Center 800G Active Electrical Cable (AEC) in 2025 was approximately 700 k units. The typical gross profit margin for AI Data Center 800G Active Electrical Cable (AEC) is between 20% and 40%.

AI Data Center 800G Active Electrical Cable (AEC) is a high-speed copper interconnect solution that integrates signal-conditioning ICs such as retimers or linear redrivers into twinax copper cables. It is designed for short- to medium-reach connections?typically 3 to 7 meters, and in some cases up to 10 meters?between AI servers, GPU clusters, and high-speed Ethernet switches. Compared with passive DACs, 800G AECs provide improved signal integrity, lower bit error rates, and more reliable high-bandwidth transmission, while offering advantages over optical solutions in terms of power consumption, cost efficiency, and deployment flexibility. As a result, 800G AECs have become a critical interconnect option for intra-rack and adjacent-rack AI data center architectures.

The AI data center 800G AEC market is experiencing rapid growth, driven by the expansion of large-scale AI training clusters, increasing GPU server density, and accelerated deployment of 800G Ethernet switches. Key growth drivers include surging

demand for intra-rack and adjacent-rack interconnects, a strong focus on low power consumption and total cost of ownership (TCO), and the partial substitution of optical interconnects by copper-based solutions within the 3?7 meter reach range. Hyperscale cloud service providers and large AI data centers represent the primary demand base, while market competition centers on the integration capabilities of cable manufacturers, connector suppliers, and high-speed SerDes or retimer chip vendors. Looking ahead, as the industry transitions from 800G toward 1.6T, AEC penetration in short- and medium-reach AI interconnects is expected to continue increasing.

This report is a detailed and comprehensive analysis for global AI Data Center 800G Active Electrical Cable (AEC) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI Data Center 800G Active Electrical Cable (AEC) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Data Center 800G Active Electrical Cable (AEC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Data Center 800G Active Electrical Cable (AEC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Data Center 800G Active Electrical Cable (AEC) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI Data Center 800G Active Electrical Cable (AEC)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Data Center 800G Active Electrical Cable (AEC) market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

AI Data Center 800G Active Electrical Cable (AEC) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

QSFP28 AEC

QSFP56 AEC

QSFP112 / OSFP AEC

Others

Market segment by Cable Length

Short-range AEC: 2?3 m

Medium-range AEC: 3?5 m

Long-range AEC: 5?7 m

Market segment by Channel Architecture

8?100GAEC

4?200GAEC

Market segment by Application

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI Data Center 800G Active Electrical Cable (AEC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Data Center 800G Active Electrical Cable (AEC), with price, sales quantity, revenue, and global market share of AI Data

Center 800G Active Electrical Cable (AEC) from 2021 to 2026.

Chapter 3, the AI Data Center 800G Active Electrical Cable (AEC) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Data Center 800G Active Electrical Cable (AEC) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI Data Center 800G Active Electrical Cable (AEC) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Data Center 800G Active Electrical Cable (AEC).

Chapter 14 and 15, to describe AI Data Center 800G Active Electrical Cable (AEC) sales channel, distributors, customers, research findings and conclusion.

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