

Global AI Server Active Copper Cables Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Server Active Copper Cables market size is expected to reach \$ 1496 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

AI server active copper cables are short-reach, high-speed electrical interconnect assemblies designed for artificial intelligence servers, GPU clusters, data center switching networks, and high-performance computing systems. They are typically composed of high-speed twinax or micro-coaxial copper cables, pluggable interfaces such as OSFP, QSFP-DD, and QSFP112, active equalization, redriver or retimer chips, EEPROM or CMIS management units, and integrated cable assembly packaging. Their core function is to transmit 200G, 400G, 800G, and higher-speed Ethernet or InfiniBand signals between servers, switches, storage devices, and network acceleration nodes. These products address the limitations of passive copper cables in high-frequency loss, link budget, and cabling reach, while offering advantages in cost, power consumption, latency, and deployment convenience compared with optical modules and active optical cables. Their key technologies focus on PAM4 high-speed signal integrity, low-insertion-loss copper cable structures, port thermal management, low-power active compensation, breakout interconnects, and platform compatibility certification.

AI server active copper cables are evolving from conventional data center connection accessories into critical high-speed interconnect components within artificial intelligence infrastructure. As GPU servers, AI accelerator cards, high-speed switches, and storage nodes continue to become denser within racks and clusters, passive copper cables are increasingly constrained by reach, insertion loss, and link stability, while optical interconnects face cost, power consumption, and port thermal management pressure in short-reach applications. By integrating equalization, redriver, or retiming capabilities at

the connector ends, active copper cables can maintain signal integrity at higher data rates and provide low-latency, low-power, and deployment-friendly connections within racks, between adjacent racks, and across switching nodes. Their value is not limited to the price of a single cable, but also lies in reducing overall cabling complexity, minimizing optical-electrical conversion stages, increasing port density, and improving system-level energy efficiency. As AI server networks continue to migrate toward 800G and 1.6T, active copper cables are expected to retain strong penetration opportunities in short-reach high-speed links.

From a technology perspective, the core evolution of AI server active copper cables is focused on higher data rates, lower power consumption, longer usable reach, and stronger platform compatibility. Mainstream port form factors include OSFP, QSFP-DD, and QSFP112, while speed classes are extending from 200G and 400G toward 800G and 1.6T. Link configurations include both point-to-point straight connections and breakout connections from high-speed ports to multiple lower-speed ports. The ACC approach emphasizes analog compensation at both ends of the copper cable to extend the usable range of passive copper with relatively low power consumption, while the AEC approach typically uses retimers or DSPs for clock recovery and signal reshaping, making it suitable for longer distances or more complex links. As PAM4 signaling rates increase, cable material, wire gauge, insertion loss, crosstalk, thermal performance, and firmware management are becoming increasingly important. Customer purchasing decisions are no longer based only on cable length and price, but increasingly on switch and server platform certification, bit error rate, hot-plug reliability, bend radius, supply continuity, and operational consistency after large-scale deployment.

The competitive landscape will involve multiple categories of participants. Connector and cable companies rely on high-speed interconnect structure design, scaled manufacturing, and customer certification capabilities to secure foundational market share. High-speed chip companies strengthen technical barriers through retimers, redrivers, and linear equalization chips, while optical communication companies enter copper interconnect products by leveraging data center customer relationships and module manufacturing capabilities. Demand is mainly driven by large cloud service providers, AI server manufacturers, high-performance computing centers, and data center networking equipment vendors in North America and China, while production and assembly follow a globalized division of labor. As AI training and inference clusters expand, rack power density, port speed, and network hierarchy are all increasing, making the economics of short-reach electrical interconnects more prominent. Future growth opportunities include mass deployment of 800G, early introduction of 1.6T, increased demand for breakout cables, expansion of low-power platform-certified

products, and coordinated optimization of copper cabling with liquid-cooled servers. Overall, this market has clear demand pull and a visible technology upgrade path, supporting relatively strong growth certainty.

This report studies the global AI Server Active Copper Cables production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Server Active Copper Cables 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 AI Server Active Copper Cables that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Server Active Copper Cables total production and demand, 2021-2032, (K Meter)

Global AI Server Active Copper Cables total production value, 2021-2032, (USD Million)

Global AI Server Active Copper Cables production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global AI Server Active Copper Cables consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: AI Server Active Copper Cables domestic production, consumption, key domestic manufacturers and share

Global AI Server Active Copper Cables production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global AI Server Active Copper Cables production by Link Topology, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global AI Server Active Copper Cables production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global AI Server Active Copper Cables 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 Amphenol Corporation, TE Connectivity plc, Molex, LLC, Credo Technology Group Holding Ltd, Volex plc, The Siemon Company, NVIDIA Corporation, SANWA Technologies Co., Ltd., Luxshare Precision Industry Co., Ltd., Shenzhen Gigalight Technology Co., Ltd., 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 AI Server Active Copper Cables market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) by manufacturer, by Link Topology, 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 AI Server Active Copper Cables Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Server Active Copper Cables Market, Segmentation by Link Topology:

Straight

Dual Breakout

Quad Breakout

Octal Breakout

Global AI Server Active Copper Cables Market, Segmentation by Speed Class:

200G

400G

800G

1.6T

Global AI Server Active Copper Cables Market, Segmentation by Port Form Factor:

QSFP-DD

OSFP

QSFP112

SFP-DD

Global AI Server Active Copper Cables Market, Segmentation by Application:

AI Server Node Interconnect

Data Center Switch Interconnect

High-Performance Computing Cluster Interconnect

Others

Companies Profiled:

Amphenol Corporation

TE Connectivity plc

Molex, LLC

Credo Technology Group Holding Ltd

Volex plc

The Siemon Company

NVIDIA Corporation

SANWA Technologies Co., Ltd.

Luxshare Precision Industry Co., Ltd.

Shenzhen Gigalight Technology Co., Ltd.

Shenzhen C-Light Network Communication Co., Ltd.

Shenzhen Tanlink Optics Co., Ltd.

JPC Connectivity Inc.

Broadex Technologies Co., Ltd.

ColorChip Group

Key Questions Answered:

1. How big is the global AI Server Active Copper Cables market?
2. What is the demand of the global AI Server Active Copper Cables market?
3. What is the year over year growth of the global AI Server Active Copper Cables market?
4. What is the production and production value of the global AI Server Active Copper Cables market?
5. Who are the key producers in the global AI Server Active Copper Cables market?

6. What are the growth factors driving the market demand?

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