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Global Connectors for Data Centers Market Growth 2026-2032

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Abstracts

The global Connectors for Data Centers market size is predicted to grow from US$ 6352 million in 2025 to US$ 13711 million in 2032; it is expected to grow at a CAGR of 11.7% from 2026 to 2032.

Connectors for data centers refer to various electrical and optoelectronic interface components specifically designed for use within data centers?facilitating connections between internal equipment, between equipment and networks, as well as along power supply and data transmission links. They serve as critical foundational elements in the construction of a data center's physical infrastructure, responsible for enabling power transmission, signal connectivity, and data communication.

The upstream sector includes suppliers of copper materials, metal terminals, engineering plastics, gold/silver plating materials, high-speed transmission chips, and precision mold equipment. These materials and components determine the connector's high-speed transmission performance, mating lifespan, and heat dissipation capabilities. The midstream sector comprises data center connector manufacturers, responsible for the design and production of high-speed backplane connectors, optoelectronic connectors, server I/O connectors, PCB connectors, and high-speed cable assemblies. Their core technologies focus on high-speed signal integrity, low loss, high density, and optimized heat dissipation structures. The downstream sector is primarily used in cloud computing data centers, AI servers, switches, storage devices, supercomputing centers, 5G communication equipment, and edge computing infrastructure.

In 2025, global connectors for data centers sales reached 2.15 billion units, with a production capacity of approximately 3.071 billion units. The average selling price was $3.02 per unit, and the average gross margin was 30%-40%.

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The global connectors for data centers market is highly internationalized and technologically concentrated, with European, American, and Japanese companies long dominating the high-end market. The overall market concentration is high, with significant technological barriers in the high-end 224G/448G high-speed connector sector, while competition is even fiercer in the mid-to-low-speed and standardized product markets. With the accelerated construction of AI computing centers, industry competition is shifting from traditional connector manufacturing capabilities to high-speed transmission, thermal management, and system-level interconnect capabilities.

Demand for connectors for data centers primarily comes from cloud computing data centers, AI servers, switches, storage devices, and high-speed communication systems. Among these, AI large-scale model training, high-performance computing (HPC), and GPU servers are currently the fastest-growing sources of demand. With the upgrade to 400G, 800G, and even 1.6T network architectures, the data transmission density within servers and between racks is rapidly increasing, significantly increasing the demand for high-speed backplane connectors, optoelectronic hybrid connectors, and high-speed I/O interfaces. The continued expansion of data centers by hyperscale cloud service providers is also driving simultaneous growth in demand for power connectors, liquid-cooled connectors, and high-speed cable assemblies.

LP Information, Inc. (LPI) ' newest research report, the ?Connectors for Data Centers Industry Forecast? looks at past sales and reviews total world Connectors for Data Centers sales in 2025, providing a comprehensive analysis by region and market sector of projected Connectors for Data Centers sales for 2026 through 2032. With Connectors 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 Connectors for Data Centers industry.

This Insight Report provides a comprehensive analysis of the global Connectors 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 Connectors 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 Connectors for Data Centers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Connectors for Data Centers and breaks down the

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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 Connectors for Data Centers.

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

Segmentation by Type:

Data Signal Connectors

Power Connectors

Segmentation by Data Rate:

25G-56G

112G

224G/448G

Segmentation by Connection:

Fiber Optic Connector

Copper Cable Connector

Segmentation by Application:

Cloud Computing and Internet Services

Artificial Intelligence and High-Performance Computing (HPC)

Telecommunications and Communication Networks

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- Other

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

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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.

Amphenol

Molex

Luxshare

TE

Jonhon Optronic

3M

Hirose Electric

HARTING

Yihua

Samtec

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T&S Communications

Yamaichi

Browave

Xidian Seiko

Chuangyitong

Starconn Electronic

Huafeng Technology

Rosenberger

Key Questions Addressed in this Report
What is the 10-year outlook for the global Connectors for Data Centers market?
What factors are driving Connectors for Data Centers market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Connectors for Data Centers market opportunities vary by end market size?
How does Connectors for Data Centers break out by Type, by Application?

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Contents

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