

Global Data Center Thermal Management Connector 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 Data Center Thermal Management Connector market size was valued at US\$ 95.90 million in 2025 and is forecast to a readjusted size of US\$ 176 million by 2032 with a CAGR of 8.9% during review period.

In 2025, global Data Center Thermal Management Connector production reached approximately 1.37 million Units .The average price of a Data Center Thermal Management Connector is 68 US\$/Unit . The Data Center Thermal Management Connector is a specialized electrical and fluid interconnect component designed for liquid cooling, high-density refrigeration, and precise temperature control systems. It aims to ensure the efficient, safe, and reliable operation of thermal infrastructure within confined spaces. This connector encompasses power connectors, signal connectors, and fluid connectors. Its core technical requirements include low contact resistance to handle continuous high-current loads, high protection ratings to withstand coolant splashes or immersion, and blind-mating and hot-swappable designs to support tool-free maintenance of server modules. As the power consumption of a single rack in AI computing clusters exceeds 60kW, thermal management connectors are rapidly evolving towards 800V high-voltage DC, coolant compatibility (fluorinated liquids/propylene glycol), and intelligent monitoring, making them a critical bottleneck component for liquid-cooled data center infrastructure.

In 2025, the data center thermal management connector industry chain will exhibit characteristics of highly specialized upstream materials and concentrated downstream application customers. Key upstream raw materials and suppliers include: high-performance engineering plastics (Polyplastics PPS, Solvay PEEK), corrosion-resistant

metals (Sandvik 316L stainless steel, Carpenter Special Alloys), fluorinated liquid-compatible seals (DuPont Viton, NOK), and gold-plated/ruthenium-plated contacts (Heraevier, Materion). Downstream main application customers fall into three categories: hyperscale cloud providers (AWS, Microsoft, Meta, Alibaba Cloud) dominate the procurement of cold-plate liquid-cooled blind-mate connectors; telecom operators (China Mobile, Verizon) drive the deployment of miniaturized IP67 connectors for edge nodes; and server OEMs (Inspur, Dell, HPE) act as indirect customers for integrated procurement. The entire industry chain is transitioning from customized prototyping to large-scale production of OCP standard interfaces, with corrosion resistance and vibration resistance becoming crucial bidding requirements.

In the cost structure of Data Center Thermal Management Connectors, raw materials account for the largest share (55%-65%), primarily consisting of PEEK engineering plastics, gold-plated copper alloys, and fluorinated liquid sealing rings; precision manufacturing and labor account for 20%-25%, covering injection molding, stamping, and blind-mating assembly; R&D and certification account for 10%-15%, including UL/OCP testing and corrosion resistance verification. The industry average gross profit margin is approximately 35%-50%. Immersion liquid-cooled and high-voltage DC connectors, due to high technological barriers, can achieve gross profit margins exceeding 55%; standard air-cooled power connectors, due to intense competition, have gross profit margins compressed to 25%-30%.

This report is a detailed and comprehensive analysis for global Data Center Thermal Management Connector 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 Data Center Thermal Management Connector market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Data Center Thermal Management Connector 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 Data Center Thermal Management Connector 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 Data Center Thermal Management Connector 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 Data Center Thermal Management Connector

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 Data Center Thermal Management Connector 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 Amphenol Industrial, CEJN, Colder Products Company, Danfoss, HENN Connector Group, Molex, Parker Hannifin, Staubli, etc.

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

Market Segmentation

Data Center Thermal Management Connector 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

Power Connectors

Signal Connectors

Fluid Connectors

Hybrid Optoelectronic Connectors

Market segment by Cooling Technology

Cold-Plate Liquid-Cooled Connectors

Immersion Liquid-Cooled Connectors

Air-Cooled Enhanced Connectors

Rear Door Heat Exchange Connectors

Market segment by Deployment

Chip-Level Connectors

Rack-Level Connectors

Inter Row Level Connectors

Facility-Level Connectors

Market segment by Application

Cloud Vendors

Telecom Service Providers

Edge Service Providers

Others

Major players covered

Amphenol Industrial

CEJN

Colder Products Company

Danfoss

HENN Connector Group

Molex

Parker Hannifin

Staubli

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 Data Center Thermal Management Connector product scope,

Global Data Center Thermal Management Connector Market 2026 by Manufacturers, Regions, Type and Application, F...

market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Thermal Management Connector, with price, sales quantity, revenue, and global market share of Data Center Thermal Management Connector from 2021 to 2026.

Chapter 3, the Data Center Thermal Management Connector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center Thermal Management Connector 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 Data Center Thermal Management Connector 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 Data Center Thermal Management Connector.

Chapter 14 and 15, to describe Data Center Thermal Management Connector sales channel, distributors, customers, research findings and conclusion.

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