

# Global Data Center Thermal Management Connector Market Growth 2026-2032

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## Abstracts

The global Data Center Thermal Management Connector market size is predicted to grow from US\$ 91.17 million in 2025 to US\$ 173 million in 2032; it is expected to grow at a CAGR of 9.5% from 2026 to 2032.

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%.

LP Information, Inc. (LPI) ' newest research report, the "Data Center Thermal Management Connector Industry Forecast" looks at past sales and reviews total world Data Center Thermal Management Connector sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center Thermal Management Connector sales for 2026 through 2032. With Data Center Thermal Management Connector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data Center Thermal Management Connector industry.

This Insight Report provides a comprehensive analysis of the global Data Center Thermal Management Connector 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 Data Center Thermal Management Connector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data Center Thermal Management Connector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Data Center Thermal Management Connector and breaks down the 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 Data Center Thermal Management Connector.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Thermal Management Connector market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Power Connectors

Signal Connectors

Fluid Connectors

Hybrid Optoelectronic Connectors

#### Segmentation by Cooling Technology:

Cold-Plate Liquid-Cooled Connectors

Immersion Liquid-Cooled Connectors

Air-Cooled Enhanced Connectors

Rear Door Heat Exchange Connectors

#### Segmentation by Deployment:

Chip-Level Connectors

Rack-Level Connectors

Inter Row Level Connectors

Facility-Level Connectors

Segmentation by Application:

Cloud Vendors

Telecom Service Providers

Edge Service Providers

Others

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

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 Industrial

CEJN

Colder Products Company

Danfoss

HENN Connector Group

Molex

Parker Hannifin

Staubli

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Thermal Management Connector market?

What factors are driving Data Center Thermal Management Connector market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center Thermal Management Connector market opportunities vary by end market size?

How does Data Center Thermal Management Connector break out by Type, by Application?

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