

Global AI Data Center Liquid Cooling Connector Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0A13E6AC05AEN.html>

Date: August 2026

Pages: 134

Price: US\$ 4,480.00 (Single User License)

ID: G0A13E6AC05AEN

Abstracts

The global AI Data Center Liquid Cooling Connector market size is expected to reach \$ 527 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

Micro plier is a small precision hand tool designed for gripping, bending, holding, cutting, forming, or positioning very small components in confined working spaces. Compared with standard pliers, micro pliers usually have finer jaws, slimmer tips, lighter bodies, lower operating force, and higher dimensional accuracy, making them suitable for electronics, semiconductor, jewelry, medical device, watchmaking, and other precision assembly applications.

In 2025, global AI Data Center Liquid Cooling Connector production reached approximately 6,824 K units, with an average global market price of around US\$ 42.5 per unit. The production capacity of AI Data Center Liquid Cooling Connector is approximately 8,637 K units per year, the average gross profit margin was 28-31%.

The upstream of AI data center liquid cooling connectors includes stainless steel, brass, aluminum alloy, engineering plastics, elastomers, O-rings, springs, valves, precision machining, surface treatment, sealing materials, and leak/flow testing equipment. Midstream manufacturers design and assemble quick disconnects, UQD connectors, blind-mate couplings, hose-end connectors, and manifold interfaces. Downstream users include AI server OEMs, liquid cooling module suppliers, CDU and manifold integrators, data center infrastructure providers, cloud service providers, telecom data centers, and HPC operators. As AI rack power density increases, these connectors become key components linking the cold plate, hose, rack manifold, and facility cooling loop.

The cost structure is mainly composed of metal or polymer connector bodies, seals and valve components, precision CNC machining or injection molding, assembly, leak testing, flow-rate testing, certification, tooling, packaging, and logistics. For a typical high-reliability liquid cooling connector, raw materials usually account for about 35?45% of cost, precision machining and molding about 20?30%, assembly and testing about 15?20%, and engineering, quality control, certification, packaging, and logistics about 10?15%. Higher-cost products are usually OCP/UQD-compatible, blind-mate, high-flow, low-pressure-drop, dripless, corrosion-resistant, or designed for frequent service cycles.

This report studies the global AI Data Center Liquid Cooling Connector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Data Center Liquid Cooling Connector 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 Data Center Liquid Cooling Connector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Data Center Liquid Cooling Connector total production and demand, 2021-2032, (K Units)

Global AI Data Center Liquid Cooling Connector total production value, 2021-2032, (USD Million)

Global AI Data Center Liquid Cooling Connector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI Data Center Liquid Cooling Connector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI Data Center Liquid Cooling Connector domestic production, consumption, key domestic manufacturers and share

Global AI Data Center Liquid Cooling Connector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI Data Center Liquid Cooling Connector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI Data Center Liquid Cooling Connector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Data Center Liquid Cooling Connector 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 Parker Hannifin, CPC, St?ubli, Danfoss, Amphenol Industrial Operations, CEJN, Gates, AVIC JONHON Optronic Technology Co., Ltd., JPC Connectivity, SafeWay, 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 Data Center Liquid Cooling Connector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Data Center Liquid Cooling Connector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Data Center Liquid Cooling Connector Market, Segmentation by Type:

Manual Quick Disconnect Connector

Blind-Mate Connector

Others

Global AI Data Center Liquid Cooling Connector Market, Segmentation by Sealing Structure:

Dripless / Dry-Break Connector

Standard Shut-Off Connector

Other

Global AI Data Center Liquid Cooling Connector Market, Segmentation by Flow Rate:

Low-Flow: 10 L/min

Global AI Data Center Liquid Cooling Connector Market, Segmentation by Application:

AI Server

GPU Rack

High-Performance Computing

Cloud Data Center

Others

Companies Profiled:

Parker Hannifin

CPC

St?ubli

Danfoss

Amphenol Industrial Operations

CEJN

Gates

AVIC JONHON Optronic Technology Co., Ltd.

JPC Connectivity

SafeWay

Envicool

Renhotec

Vanamatic

Sinbo Precision

Key Questions Answered:

1. How big is the global AI Data Center Liquid Cooling Connector market?
2. What is the demand of the global AI Data Center Liquid Cooling Connector market?
3. What is the year over year growth of the global AI Data Center Liquid Cooling Connector market?
4. What is the production and production value of the global AI Data Center Liquid Cooling Connector market?
5. Who are the key producers in the global AI Data Center Liquid Cooling Connector market?
6. What are the growth factors driving the market demand?

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