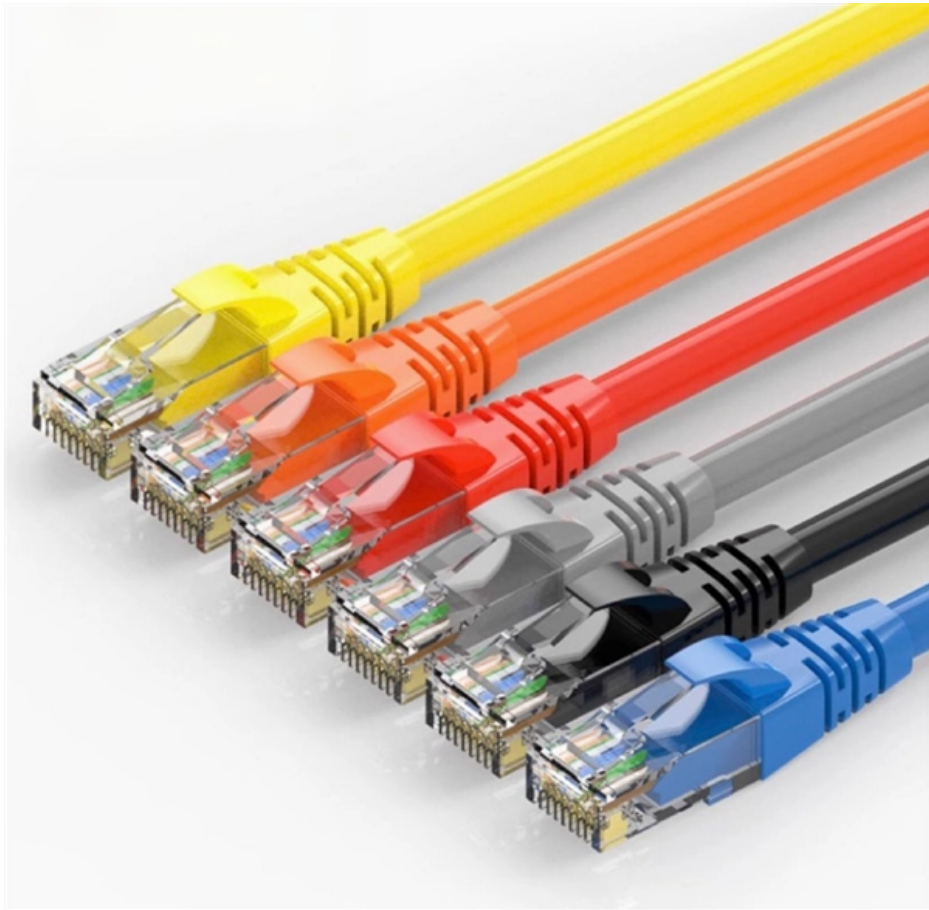


Immersion Liquid Cooling for Edge Data Centers in Japan



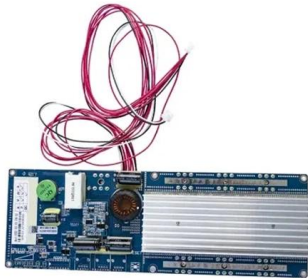


Overview

ITRI and KDDI, in cooperation with other IT enterprises, developed the Immersion Cooling Edge Data Center, using a non-conductive liquid coolant to enhance heat dissipation from servers and thus reduce carbon emissions up to 40%. Data center providers in Japan, KDDI and NTT Data, are exploring liquid immersion technology to significantly reduce the energy wasted on cooling server hardware. KDDI's recent field tests have achieved an impressive 94% reduction in electricity consumption for temperature control compared to. NTT is launching two liquid cooling deployments in Japan to further the technology. GIGABYTE Technology drew from its years of experience in the telco sector to provide the R282-Z93 and R182-Z91 Rack Servers for KDDI.



Immersion Liquid Cooling for Edge Data Centers in Japan



Immersion Cooling Edge Data Center

ITRI and KDDI, in cooperation with other IT enterprises, developed the Immersion Cooling Edge Data Center, using a non-conductive liquid coolant to enhance heat

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Demonstration Testing of Liquid Cooling System Achieves 94

KDDI, MHI and NESIC will commence provision of immersion cooling data centers within FY2023, anticipating a wide variety of applications from hyper-scale data centers to containerized data centers*4.

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Top 10: Liquid Cooling Companies , Data Centre Magazine

Discover the leading liquid cooling companies transforming data centre infrastructure with sustainable, high-performance thermal management solutions

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5 Liquid Cooling Data Center Projects in 2026

5 Liquid Cooling Data Center Projects in 2026 1. Meta - New Albany, Ohio (Liquid-Cooled AI Expansion) Meta's 2026 New Albany expansion is its first U.S. campus designed from the ground



Japan Pioneers Energy-Efficient Data Centers with Liquid Immersion

The exploration of liquid immersion cooling systems by KDDI and NTT Data showcases their commitment to reducing power consumption and addressing the challenges of heat generation

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Top 10: Liquid Cooling Companies , Data Centre Magazine

In association with Mitsubishi Electric, Data Centre Magazine spotlights top liquid cooling companies developing sustainability-led solutions

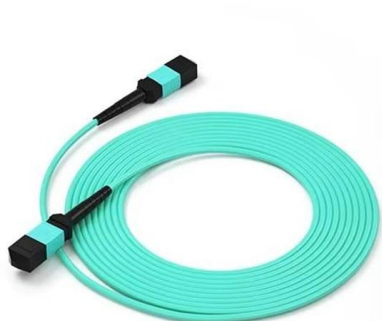
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Data Center Liquid Cooling

Refruid Technologies is an innovative company focused on advanced immersion cooling solutions for data centers. It aims to enhance performance while reducing environmental impact through energy

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NTT launches two liquid cooling tests in Japan

This demonstration will implement the cooling of high-performance servers using two-phase direct chip cooling provided by Mitsubishi in an

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Infinium Launches Infinium Edge(TM) Platform for High

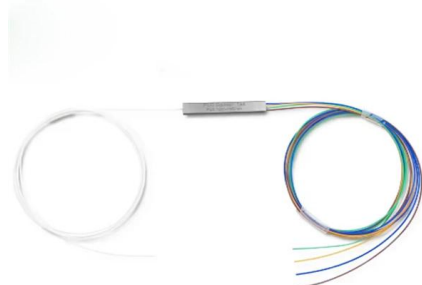
Infinium Edge Immersion Fluids(TM), a new class of custom-engineered dielectric fluids specially made for AI and HPC data centers, are designed to

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Chilling out in 2025: A year in data center cooling

While DCD has spoken to myriad companies, particularly those operating in the enterprise colo space for whom traditional air cooling remains

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AI Data Center Liquid Cooling Market to Jump at 17.2% CAGR

Data Center Immersion Coolant Market Report, 2026 to 2036 GPU thermal design power (TDP) is approaching the 1,000W-per-chip threshold by 2026-27; air cooling has run out of headroom.

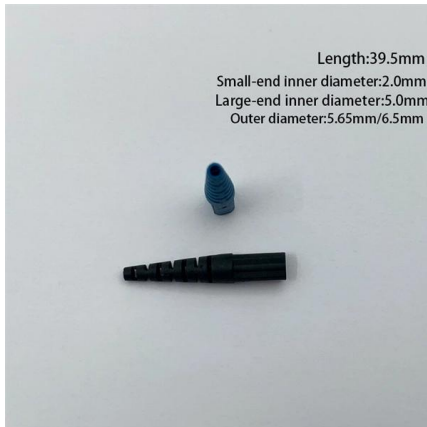
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Liquid Cooling Comes to a Boil: Tracking Data Center

Recent developments from Aligned Data Centers, Colovore, Iceotope and Microsoft underscore the maturation of liquid cooling into a pillar of modern

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Why Liquid Cooling Is the New Standard for Data

Discover why liquid cooling is replacing air systems in modern data centers. Explore its role in AI workloads, energy savings, and sustainability in

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Liquid Cooling: The 2026 Mandate for 100kW AI Racks

In 2026, liquid cooling is mandatory for 100kW AI data centers. Learn how key partnerships are solving the power crisis and shaping the future of cooling. Discover more.

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Immersion Cooling Market Trends and Global Long-term Forecasts

The immersion cooling market is poised for growth, driven by demand for efficient thermal management in AI, edge computing, and cryptocurrency mining. Its energy efficiency, improved

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Data Center Cooling Market Size, Share , Forecast

DATA CENTER COOLING MARKET TRENDS Shift Toward Liquid Cooling and Immersion Cooling is a Major Market Trend While traditional CRAC

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\$48.42 Billion Data Center Liquid Cooling Markets 2024

The global data center liquid cooling market, valued at \$5.65 billion in 2024, is expected to reach \$48.42 billion by 2034, exhibiting a robust CAGR of

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ADVANCED COOLING SYSTEM SOLA(TM)

RSI is proud to provide a two-phase liquid immersion cooling solution in Japan, partnered with Taisei and Shinohara Electrics. Enabling customers to significantly

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Japan pilots liquid cooling for AI data centers as energy costs surge

Three Japanese companies have successfully started testing liquid cooling systems for artificial intelligence (AI) servers, offering hope for an industry struggling with massive heat and

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Liquid cooling in the generative AI era

Requirements for liquid cooling in data centers are evolving fast, and vendors are reacting accordingly

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Japanese Telco Leader KDDI Invents Immersion

Revolutionizing data centers with immersion cooling, this analysis explores KDDI and GIGABYTE's solution for energy-efficient, carbon-neutral

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Demonstration Testing of Liquid Cooling System

KDDI, MHI and NESIC successfully conducted demonstration testing of an immersion cooling system to liquid-cool the IT components of a data center

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Trane acquires cooling firm LiquidStack

HVAC company Trane Technologies has acquired liquid cooling firm LiquidStack. Announced this week, the companies said the deal enhances Trane

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CIARA Immersion-Born Servers for Sustainable Compute , Hypertec

Servers engineered for immersion cooling, delivering higher density, efficiency, and performance for next-gen data centers.

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Japan eyes liquid immersion to cool data center servers

TOKYO -- Japan's largest providers of data centers plan to eliminate nearly all the energy wasted on cooling the hardware by placing servers in vats of liquid.

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For datasheets, pricing, or custom fiber access solutions, please visit:
<https://frindel.es>