dpi DATALEC
PRECISION INSTALLATIONS

Championing Collaboration in the Era of AI

Case study in partnership with:

||||| KAO DATA

Introduction

In the ever-evolving world of data infrastructure, the partnership between Datalec Precision Installations (DPI) and Kao Data stands out for its innovation and expertise. This case study sheds light on their longstanding heritage of collaboration, focusing on Kao Data's ground-breaking work in data centres engineered for AI and advanced computing.

With DPI as the guiding force in data centre solutions, we explore Kao Data's unique strengths, its liquid-cooled infrastructure evolution, and the successful background of their years-long partnership. This journey also unveils their joint commitment to ESG and offers a comprehensive overview of Kao Data and DPI's shared accomplishments, expectations, and the recognition anticipated within the industry.

Background

Kao Data leads the industry, pioneering the development and operation of data centres engineered for AI and advanced computing. With hyperscale-inspired facilities east and west of London and northern England's largest data centre planned for Greater Manchester, Kao Data is home to technology's most demanding computing infrastructure. Its award-winning, NVIDIA DGX-Ready certified data centres are designed, engineered, and operated by one of the industry's most respected teams. Together, this provides colocation customers deploying mission-critical AI, enterprise, and cloud workloads with a secure, scalable, and sustainable compute environment, backed by a guarantee of 100% uptime.

Our partner

KAO DATA

Kao Data's data centre portfolio includes more than 160 MW of IT load either currently operational, under development, or planned – all underpinned by the highest energy efficiency, sustainability, and ESG credentials. Backed by leading international investors and with several pioneering 'industry firsts' to its name, Kao Data represents the future in industrial scale, high-capacity data centres for AI and the next generation of GPU-powered computing.

DPI is pivotal in solving critical customer challenges through its partnership with Kao Data. Offering a comprehensive turnkey solution within the data centre white space, DPI's capabilities span the spectrum of mission-critical systems, covering power, containment, fibre cabinets, and bespoke, hot aisle solutions.

The partnership excels in addressing the specific requirements of each project, providing tailor-made solutions that ensure precision in meeting individual customer needs. Leveraging a diverse supply chain, DPI enhances flexibility and adaptability in project execution, contributing to seamless operations. The consistent on-time delivery of all projects underscores DPI's commitment to efficiency and ensures the fulfilment of timescale obligations, a crucial factor in the success of each endeavour.

Moreover, delivering projects to a consistently high standard speaks to DPI's unwavering commitment to quality, thereby enhancing Kao Data's reputation for exceptional customer service and world-class operations. Ultimately, DPI's demonstrated ability and performance positively impact Kao Data, solidifying its position as an industry leader in delivering first-class, industrial-scale data centre solutions.

Datalec and Kao Data have a joint commitment to ESG

Kao Data: Engineered for AI

In the fast-evolving landscape of data infrastructure, Kao Data emerges as a pioneering force, engineering data centres specifically tailored for the demands of AI. What sets Kao Data apart is its technical prowess, and commitment to the future of high-density computing, a departure from legacy and traditional data centres.

Specialising in next-generation workloads such as NVIDIA's DGX-Cloud platform and featuring other high-density AI deployments from Instadeep and Speechmatics, alongside other GPU-powered equipment, Kao Data's journey towards a liquid-cooled infrastructure is a testament to its forward-looking approach. Integral to this ambitious vision is DPI, a trusted partner that goes beyond conventional roles.

Rather than a standard data hall preparation, DPI's collaboration with Kao Data took a thought-leadership position in the industry, aligning perfectly with its high-performance ethos and the surging demand for AI solutions. Working together, DPI was able to facilitate a high-density computing environment, purpose built to accommodate a next-generation liquid cooling solution from one of the world's leading enterprise hardware, cloud, AI and cognitive computing companies, and deliver it seamlessly to Kao Data.

DPI has brought significant strength and depth of expertise to its partnership with Kao Data during a long-standing relationship that spans over four years. Having an acute understanding of Kao Data's unique needs, DPI delivered the fit-out of their data centre with exceptional standards and managed to do so ahead of schedule and within budget.

The delivery of two data centres simultaneously on the same site, each with the same design, highlights the robustness of the partnership. The end user in this case, benefitted from DPI's meticulous planning and execution within a demanding timescale. The environmental consciousness in deliverability, being less than 20 miles from the data centre, aligns with the company's sustainability goals.

Unique elements of the project, such as the customisation of HACs, the use of white cabinets for improved LUX levels, and the installation of various components such as PDUs, air baffle solutions and cabinet cable tidy solutions underscore DPI's adaptability and commitment to excellence in data centre solutions.

Delivered ahead of schedule **and within budget.**

> **DPI has consistently delivered a complete turnkey solution within our data centre white space, showcasing expertise in powering, containment, fibre cabinets, and hot aisle solutions tailored precisely to each customer's unique requirements. Their unwavering commitment to delivering projects on time to a remarkably high standard has been instrumental in Kao Data's success.**
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> **We take pride in our partnership with DPI, as their exceptional performance enables us to fulfil our commitments and contributes to our customers' overall satisfaction. Working with DPI makes us stand out in the industry, as their reliability ensures that we consistently deliver on our design requirements, enabling our customers to deploy their IT systems on schedule.**

Howard Spooner,
Senior Customer Implementation Manager, Kao Data

Project Results

The partnership between DPI and Kao Data has yielded significant project results, showcasing the effectiveness of their collaboration:

On-time Delivery:
- Projects consistently met deadlines without any instances of late delivery.
- Delivery was consistently on time or even ahead of the target, reflecting the reliability of the partnership.

Quality Solutions:
- DPI/Kao Data consistently delivers high-quality solutions, maintaining the standard of design and work.
- The commitment to providing good quality solutions was a crucial reason for the ongoing collaboration.

Reliability and Consistency:
- DPI/Kao Data's reliability in on-time deliveries and consistent quality was a cornerstone of the partnership.

- The consistent track record reinforces the trust in DPI/Kao Data's ability to meet expectations.

One-stop Shop Capability:
- The partnership offers a comprehensive "one-stop-shop" solution for Kao Data, handling all aspects from cabling to power.
- DPI/Kao Data's in-house capabilities streamline the process, providing a holistic solution.
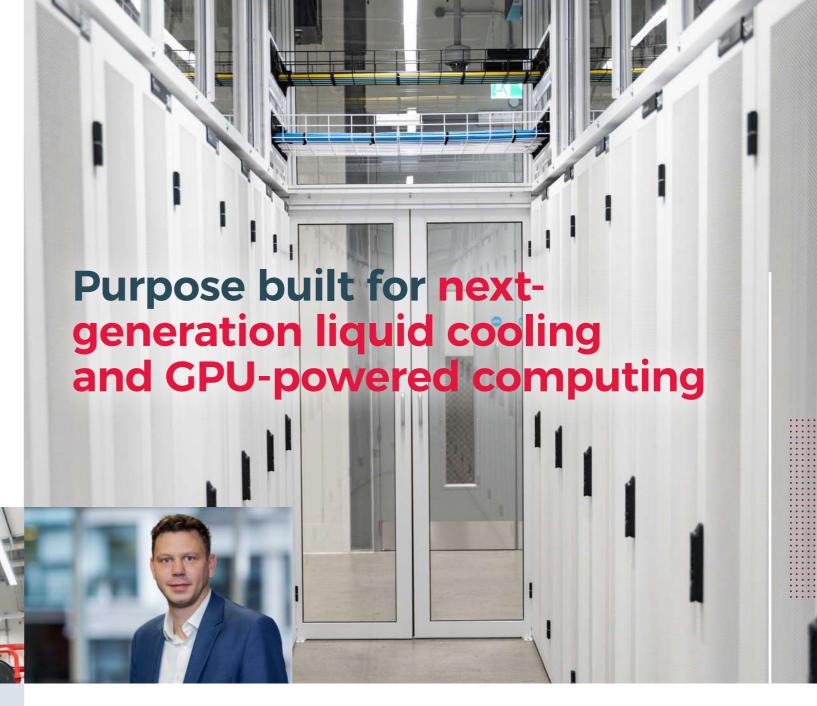
Seamless Integration:
- DPI's involvement allowed the customer to integrate their IT kit seamlessly without hassle.
- The partnership provided an end-to-end solution, ensuring a smooth experience for the end customer.

Full Turnkey Solution:
- DPI/Kao Data's capabilities enabled a total turnkey solution for a complete fit-out.
- This comprehensive offering contributed to the success and efficiency of the overall project.

Futureproofing:
- DPI were able to facilitate a high-density computing environment, purpose built for next-generation liquid cooling and GPU-powered computing and deliver it seamlessly to Kao Data.
- This comprehensive solution helps Kao Data to engineer its customers' environments for AI and the future of compute.

Purpose built for next-generation liquid cooling and GPU-powered computing

Conclusion

In conclusion, the partnership between Datalec Precision Installations and Kao Data exemplifies a successful collaboration beyond conventional industry standards. From on-time delivery and quality solutions to reliability, consistency, and a complete turnkey offering, DPI's expertise enhances Kao Data's position as a leader in AI-centric data infrastructure.

The case study highlights their shared achievements and underscores the pivotal role DPI plays in shaping the future of data centres engineered for AI and high-density computing. As the industry continues to evolve, the DPI/Kao Data partnership is a testament to the power of collaboration, innovation, efficiency, and excellence in data centre solutions.

> We take pride in consistently fulfilling all our client's requirements, including providing bespoke, fully tailor-made solutions. We are fortunate to work with prestigious clients, and at all times, we are fully focused on them. The result of this approach speaks for itself when we hand over two fully functional state-of-the-art data centres, ahead of the planned delivery schedule, well within budget, and with minimal snags. This delivery of an exemplary standard and quality is supported by having a solid collaborative working relationship, such as the one we have with Kao Data, and we look forward to working with them in the future.

James Marshall
Head of Connectivity, Datalec Precision Installations

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