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DUG unveils high-density edge-computing solution at SC25 in St. Louis

An innovative, deploy-anywhere edge-computing solution, available in compact 10 ft and super high-density 40 ft options, will be featured at this year's premier supercomputing conference.

Australian-based tech company, DUG Technology (DUG), is showcasing its latest DUG Nomad edge-computing solution at the International Conference for High Performance Computing, Networking, Storage and Analysis (SC25) in St. Louis, Missouri, USA, from 16 to 21 November 2025.

The Nomad 10 is a compact container delivering an impressive 80 kW of cooling and supporting more than 80 NVIDIA H200 GPUs. Visitors to the conference can explore the Nomad 10 in person, including the sustainable immersion-cooling technology and completely self-contained, compact design. The Nomad 10 is engineered for rapid deployment, with self-contained cooling that eliminates the need for external chillers, plumbing or site prep. It goes from delivery to operation in just hours.

Now, DUG has introduced a new 40 ft Nomad to the family. The Nomad 40 delivers extremely-high compute-density in a mobile, modular and scalable form — with a single unit providing up to 1 megawatt of IT heat rejection and supporting more than 850 NVIDIA H200 GPUs or 92,000 CPU cores.

The DUG Nomad 40 extends the capabilities of the compact Nomad 10, offering rapid deployment, scalable compute power and ultra-efficient immersion cooling. Each Nomad is self-contained and engineered to operate in almost any environment, making high performance computing and AI inference accessible wherever data is generated.

"Organisations increasingly need the power of a data centre without being tied to one location. Nomad gives them that flexibility — the ability to deploy serious computing capability at the edge, in days rather than months, with high energy efficiency," said Harry McHugh, DUG Chief Information Officer.

Integrated with DUG's proprietary immersion-cooling technology, which is licensed exclusively to global data-centre cooling specialists Baltimore Aircoil Company (BAC), the Nomad 40 achieves a design power usage effectiveness (PUE) of less than 1.05, depending on the environment. PUE is an industry metric that measures how efficiently a data centre uses energy. The closer to 1.0, the less energy is wasted on non-computing functions such as cooling or power distribution.

This high efficiency, achieved through immersion cooling, significantly reduces operational power use while protecting equipment from dust and oxidation, which in turn leads to fewer failures and less downtime. The result is a rugged, transportable data-centre platform that maintains peak performance under challenging conditions and supports the growing need for secure, low-latency computation.

The DUG Nomad offers a game-changing solution for applications where confidentiality, sovereignty and security are non-negotiable. It brings processing power much closer to where data is generated, allowing organisations to maintain full control. It also reduces latency and improves reliability in remote locations.

Visitors to DUG's booth (#4224) can learn how DUG's edge-computing solutions are redefining how and where data is processed — from scientific research and energy exploration to real-time AI-inference and analytics.

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Interview opportunities are available and follow up viewings of the Nomad 10 can be arranged on appointment.

About DUG

DUG is an ASX-listed technology company that provides innovative processing and storage solutions for real-world applications

DUG delivers proprietary software (DUG Insight), cloud-based HPC as-a-service (DUG HPC Cloud), immersion-cooling (DUG Cool), and edge-computing solutions (DUG Nomad), backed by bespoke support for technology onboarding.

Decades of experience in algorithm development, optimisation and HPC craft enables DUG to solve complex problems for clients. With offices in Perth, London, Houston, Kuala Lumpur, Abu Dhabi and Rio de Janeiro, DUG designs, owns and operates a network of some of the largest supercomputers on Earth.