New Modular Data Center Products



Overview

Modular solutions are ideal for enterprise, colocation, edge and cloud data centers, where project replicability and expandability are critical, alongside fast deployment time.

Key Takeaways

Leading companies are introducing advanced modular data center solutions that offer rapid deployment, high-density support, liquid cooling, and scalable architectures for AI, HPC, and edge applications.

Schneider Electric Eco

Struxure Modular Solutions

Schneider Electric has launched Prefabricated Modular EcoStruxure Pod Data Centers and EcoStruxure Rack Solutions designed for high-density AI and HPC workloads. These pods support racks up to 1MW and beyond, integrating liquid cooling, high-power busways, hot aisle containment, and rear door heat exchangers for efficient thermal management.

The Eco

Struxure Rack Solutions comply with EIA, ORV3, and NVIDIA MGX standards, featuring NetShelter SX Advanced Enclosures and updated Rack PDUs to handle extreme power demands while enabling rapid, scalable deployment globally.

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Vertiv Prefabricated Modular Solutions

Vertiv emphasizes off-site prefabrication, allowing modular data centers to be produced and tested concurrently with site preparation. This approach reduces construction time by over 40% compared to traditional builds, ensures repeatable quality, and simplifies logistics. Vertiv's modular systems are designed for high-density AI applications, hybrid and liquid-based cooling, and flexible power integration, providing scalability, efficiency, and risk mitigation for enterprise and edge deployments.

Siemens, Cadolto, and Legrand Modular Edge Data CentersSiemens, Cadolto, and Legrand have introduced a next-generation modular edge data center that is plug-and-play, fully integrated, and rapidly deployable. This solution targets edge computing and AI-driven workloads, offering speed, scalability, and sustainability. The system can be configured, installed, expanded, and relocated with ease, making it ideal for businesses requiring agile infrastructure that grows with demand.

AB

B Prefabricated and Integrated SolutionsABB provides prefabricated eHouses and skid-mounted modular units for enterprise, colocation, edge, and cloud data centers. These solutions reduce deployment time by up to 50%, ensure high reliability and efficiency, and integrate switchgear, transformers, and power distribution components. ABB's modular systems are particularly suited for projects with short delivery timelines and high scalability requirements.

Key Advantages of Modern Modular Data Centers

Rapid Deployment: Factory-built modules allow faster installation and commissioning compared to traditional construction.

High-

Density Support: Designed for AI, HPC, and edge workloads with advanced cooling and power distribution. Scalability: Modular architecture enables incremental expansion and relocation as business needs evolve. Sustainability and Efficiency: Optimized thermal management, liquid cooling, and energy-efficient designs reduce operational costs and environmental impact.

Quality and Reliability: Factory-controlled production ensures consistent quality, reduced onsite labor, and minimized risk. These innovations reflect a broader industry trend toward flexible, high-performance, and rapidly deployable data center infrastructure, meeting the growing demands of AI, edge computing, and cloud services.

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Article Content

Prefabricated modular solutions

Customize your own modular data center with Vertiv Modular Designer. Even under extreme load conditions, you can support continuous operation of AI applications

Schneider Electric Launches New Data Center

Schneider Electric''s new line of solutions equips customers with integrated, data-validated, and easily scaled white space solutions that address

Reinventing the edge: Siemens, Cadolto and Legrand

Siemens Smart Infrastructure, Cadolto Datacenter GmbH (Munich, Germany), and Legrand Data Center Solutions (Baiersdorf, Germany) are jointly

Prefabricated and integrated data center solutions

Modular solutions are ideal for enterprise, colocation, edge and cloud data centers, where project replicability and expandability are critical, alongside fast deployment time.

Top 10: Modular Data Centre Companies | Data Centre Magazine

Here we highlight the top 10 companies leading the modular data centre revolution, ranked by market leadership, innovation, global scale and strategic focus.

EcoStruxure™ Modular Data Center | Schneider Electric

Deploy the compute capacity you need — where you need it — with factory-built quality, faster installation, and predictable performance. Modular data centers

Prefabricated modules offers data center scaling to GW scale

New factory-prefabricated modular solution scales data centers from MW to GW class The flexible design allows operators to scale incrementally from a nimble 3MW base unit up to a

Schneider Electric Launches New Data Centre Solutions to Meet ...

Innovative prefabricated data centre architecture provides critical IT infrastructure for high-density computing clusters. New rack PDUs and rack systems are built for increased size and...

Modular Data Centers Recent News | Data Center Knowledge

Explore the latest news and expert commentary on Modular Data Centers brought to you by the editors of Data Center Knowledge

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NVIDIA Launches Space Computing, Rocketing AI Into Orbit

NVIDIA today announced that its latest accelerated computing platforms are unlocking a new era of space innovation, bringing AI compute to orbital data centers (ODCs), geospatial

Source Photonics to Expand Optical Chip and Module Production

As AI data center deployments continue to accelerate, demand for high-speed optical interconnects has seen burgeoning growth, triggering a new wave of capacity expansion across the

Hardware | Oracle

Oracle Hardware Oracle hardware includes a full suite of scalable engineered systems, servers, and storage that let enterprises optimize application and

Cloud Products | Microsoft Azure

Browse an A-to-Z directory of generally available Microsoft Azure cloud products--app, compute, data, networking, and more.

AI Data Centers Ignite a Laser Shortage Wave; Nvidia''s Strategic

TrendForce''s recent research indicates that high-speed optical interconnects are now central to performance and scalability, especially as AI data centers grow into large clusters. The

AI Factory Design, Simulation, and Operations | NVIDIA DSX Platform

NVIDIA DSX AI factories are co-designed as unified systems across chips, systems, networking, infrastructure software, power, cooling, and operations, unlike traditional data centers that are often

Modular Reactors To Solve Data Center Hysteria?

The Data Center Dilemma AI data centers have become the boogeyman recently, facing opposition on the populist right and left as nobody wants one in their backyard goosing up local

Viavi Targets AI Data Centers And Defense With New Timing Module

The focus on precise timing for AI data centers and defense supports the view that Viavi is connected to multi year upgrade cycles in high performance networking and aerospace and defense

Data center industry news, analysis, and opinion

DatacenterDynamics is the world''s largest data center publication. We publish news, magazine features, and podcasts about the hyperscale &

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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