Customized pricing for micro-module data centers



Overview

For businesses, organizations, and even remote sites, the search for a faster, more efficient alternative has led many to the Micro Modular data center.

Key Takeaways

Micro-Module Data Centers in 2026 range from approximately $82 for ultra-compact edge units to $36,000+ for high-end integrated modules, with costs influenced by power, cooling, and scalability requirements. Cost RangesUltra-compact edge nodes (Mini PC/NAS style) designed for small-scale processing or firewall applications typically cost $82 to $935, depending on CPU, RAM, and storage configurations. Integrated single-rack or high-density micro modules with full power, cooling, and UPS systems range from $4,350 to $36,000+ per unit, reflecting higher capacity, redundancy, and factory integration.

Costs for larger modular deployments are influenced by power capacity, with units ranging from 3 kVA to 20 kVA and cabinet counts from 1 to 10, where more cabinets and higher power increase the price.

Key Cost Drivers

Power and Space Requirements: More U-space and higher kVA ratings increase both CAPEX and OPEX. Cooling Systems: Precision air conditioning or liquid cooling loops for high-density modules add to upfront costs but improve energy efficiency. Redundancy and Reliability: Integrated UPS, backup batteries, and monitoring systems enhance uptime but raise unit prices.

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Software Licensing: DCIM suites and remote management tools may involve recurring subscription fees, affecting total cost of ownership. Deployment Speed and Scalability: Factory-assembled units reduce on-site labor and installation time, offering a “pay-as-you-grow” model that can optimize initial investment.

Market Trends

The micro data center market is expanding due to edge computing, 5G deployment, and AI workloads, with SMEs increasingly adopting compact modules to reduce latency and capital expenditure. High-end integrated micro modules are becoming more sophisticated, featuring DDR5 memory, NVMe storage, and smart cloud-based management, which can justify higher pricing. The market is projected to grow from $9.

19B in 2026 to $21. 42B by 2030, reflecting rising demand for decentralized IT infrastructure. Comparison with Traditional Modular Data CentersTraditional modular builds cost roughly $11.

7M per MW of critical load, with CAPEX influenced heavily by power and cooling infrastructure.

Micro-

Module Data Centers offer faster deployment, lower on-site labor, and reduced building shell requirements, though they cannot match hyperscale facilities in server volume. For small to medium workloads, micro modules provide a cost-effective, scalable, and reliable alternative to traditional data centers, often with 40% lower total cost of ownership over 3–5 years.

Summary

Pricing for Micro-Module Data Centers varies widely based on unit size, power, cooling, redundancy, and software features. Small edge units start under $100, while fully integrated high-density modules can exceed $36,000 per unit. The choice depends on workload requirements, deployment speed, and scalability needs, making micro modules particularly attractive for edge computing, remote offices, and SMEs seeking rapid, reliable, and energy-efficient IT infrastructure.

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Article Content

How Much Does It Cost to Build a Micro Modular Data Center?

For businesses, organizations, and even remote sites, the search for a faster, more efficient alternative has led many to the Micro Modular data center. But one question always comes

Micro Modular Data Center 2026: Latest Prices & Top Solutions

Leading manufacturers like SHENGLIN, a pioneer in industrial refrigeration technology, are driving innovation in this area by providing high-efficiency, customized cooling solutions that

Micro Data Center Cost 2026: Pricing & Trends

Explore micro data center cost trends for 2026. Compare pricing across edge nodes, integrated cabinets, and liquid-cooled modules. Click to discover the best ROI solutions for AI and

Modular Data Center Cost: CAPEX, OPEX & Timeline Drivers

This piece breaks down the cost drivers that actually move the needle – on CAPEX, on OPEX, and on timeline. By the end, you''ll know what questions to ask before engaging any modular

Micro Data Center

Product availability varies by country. This is a customized solution and is recommended for larger projects. The detailed specifications vary according to the customer''s requirement. For further

Micro and Modular Data Center Construction

From single rack to multiple data modules, we can design and deploy a wide range of prefab data center modules tailored to specific needs, ensuring scalability, efficiency, and rapid deployment for diverse

Custom Modular Data Centers for Edge & AI | ModulEdge

White-label-ready modular data centers you can brand as your own. Configure power (5–150 kW/rack), cooling, and hardening for each deployment. We provide engineering and modular data center

Micro Data Center Companies | Containerized DC Solutions ...

Containerized / Modular Data Centers- A containerized data center is generally a small module or industrial container that''s packaged with ready-to-use, plug-and-play data center components:

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The Modular Data Center Ultimate Guide

Using prefabricated modules, these centers are operational in weeks rather than months, unlike traditional ones. This article covers the key elements, benefits, and applications of modular

Modular Data Center Solutions | Dell USA

From leveraging the latest cooling technologies to reducing overall data center costs, our focus is on the now and what''s best for our customer and the planet. Organizations of every size are driving

Micro and Modular Data Center Construction

Micro and modular data centers offer businesses and organizations an agile, scalable, and cost-effective solution to meet growing IT demands. Whether you

Prefabricated Data Center Modules | Schneider Electric USA

Accelerate AI data center deployment with a prefabricated modular pod—factory-built with power and cooling for scalable, high-density IT infrastructure. Schneider Electric Prefabricated Modular Pod

Micro Data Centers: A Practical Guide for Small IT Teams

Learn what a micro data center is, why it may suit your business, and how to build one without the cost and complexity of a full-scale facility.

Emerging Micro Module Data Center Solutions Trends and Opportunities

Explore the dynamic Micro Module Data Center Solutions market analysis, including size, CAGR, drivers like edge computing and IoT, key trends, restraints, and regional growth

High-Capacity HDDs for PCs, NAS, Gaming, Data Centers, and AI Data ...

Tiered storage—spanning HDD, flash, and tape—is the operational standard for hyperscale data centers and scalable AI infrastructure.

Modular Data Centers: Prefabricated Containers and Modules

Modular data centers are prefabricated buildings such as a container that house servers, data hall, or data center module for power and cooling.

The Intelligent Micro Module, the Element of Intelligent

The Intelligent Micro Module can provide simultaneous, efficient operations in order to provide the best green data center, the best asset management, and optimum

Smart Micro Data Center Module with Integrated Power

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High-Density Integrated Modular Data Center with Cold Aisle Containment offers a durable, prefabricated solution for scalable data management.

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