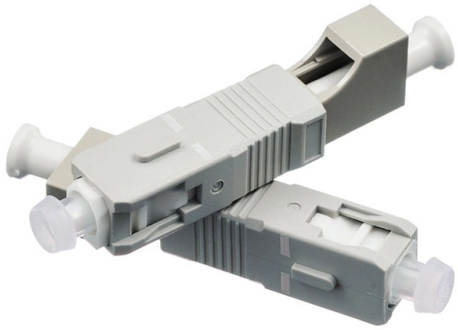
Micro-module data center pricing materials



Overview

For workloads above roughly 1 MW, the right answer is almost always a prefabricated room or a hybrid campus, not a stack of containers.

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.

© 2026 PROMETHEAS OPTICAL - All rights reserved

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.

© 2026 PROMETHEAS OPTICAL - All rights reserved

Article Content

Modular Data Center Guide: Types & When It Wins | ModulEdge

For workloads above roughly 1 MW, the right answer is almost always a prefabricated room or a hybrid campus, not a stack of containers. For workloads under 100 kW that need to live

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

Micro Modular Data Center 2026: Latest Prices & Top Solutions

A micro modular data center is a compact, pre-engineered IT infrastructure solution designed for edge computing, remote operations, and rapid deployment. Unlike traditional facilities,

Micro Data Center

Delta''s modular datacenter solution offers a datacenter environment that provides safe equipment operations within the racks, and supports the development and standardizing of micro datacenters

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,

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

But one question always comes up first: how much does it actually cost to build one? Unlike traditional brick-and-mortar data centers that require extensive on-site work, hidden fees, and

Micro Module

Highly integrated and flexible installed data center infrastructure for rapid deployment and efficient operation and maintenance. Inspur intelligent micro module product adopt factory prefabrication

How Much Does a Data Center Cost? The Complete Guide To 2026

See what a data center really costs in 2026, from build price per megawatt to monthly operating costs. A clear breakdown of every line item, with real numbers.

Understanding Data Center Pricing Models: A Comprehensive Guide

© 2026 PROMETHEAS OPTICAL - All rights reserved

Unlock the secrets of data center pricing models with our comprehensive guide. Learn about colocation, metered power, and managed services and what they mean for your business.

Modular Data Centers: When They Work, and When They Don''t

Modular data centers offer fresh opportunities for the industry, but that doesn''t mean they are right for every occasion.

Data Center Development Cost Guide

Our Data Center Development Cost Guide provides insights across U.S. markets, including building, material, land and labor costs and more.

Modular Data Center Solutions | Dell USA

Deploy technology at the edge or anywhere your data is generated with modularized, integrated racks built outside traditional data center constraints.

The Modular Data Center Ultimate Guide

A modular data center is a quick, flexible, and cost-effective way to boost your data storage. Using prefabricated modules, these centers are

Best Practices for Planning and Deploying Modular Data Centers

This guide details modular data center best practices to help optimize the way organizations acquire and use modular builds.

An Easy Way to Understand Data Center Costs Breakdown

Trying to figure out data center costs breakdown so that you can choose a provider, It is quite tricky. Nonetheless, there are a few common features that contribute to the final price. These

Modular Data Centers: An Ideal Solution for Digital Growth in the ...

Crucially, modular data centers provide a foundational element for datacenter expansion, offering adaptability and efficiency across various settings, from isolated areas to space-constrained urban

Micro Module Data Center Solutions Market Key Insights ...

The Micro Module Data Center Solutions Market is gaining significant traction due to the growing demand for modular, scalable, and energy-efficient data center solutions.

Modular and Micro Data Center Intelligence Service

© 2026 PROMETHEAS OPTICAL - All rights reserved

PRODUCT OVERVIEW |Modular and Micro Data Center Intelligence Service “ In the face of ever-increasing demand for compute and chronic staffing challenges, data center operators face a

Contact Us

Continue your research online:

Website: https://prometheas.fr
Technical inquiry: https://prometheas.fr/project-desk.html
North American project region: Ashburn, Loudoun County, Virginia, United States

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

© 2026 PROMETHEAS OPTICAL - All rights reserved