

Cost of Data Center Micro-modules



Overview

Micro Data Center Cost 2026: Pricing & Trends Explore micro data center cost trends for 2026. Compare pricing across edge nodes, integrated cabinets, and I.

Key Takeaways

Micro data center modules in 2026 range from \$82 for ultra-compact units to over \$100,000 for high-density, customized configurations. Pricing Overview

Micro-modules vary widely in cost depending on size, capacity, and intended use. Ultra-compact micro-servers designed for small-scale edge computing or NAS applications typically cost \$82 to \$935, depending on CPU type and RAM/SSD configuration. High-end integrated single-rack modules suitable for enterprise AI or edge workloads range from \$4,350 to \$36,000, while fully customized high-density solutions with advanced cooling can exceed \$100,000.

Factors Influencing Cost

- Power and Space Requirements: Units range from 3 kVA to 20 kVA, with more cabinets or higher power capacity increasing costs.
- Cooling Solutions: Standard air-cooled modules are less expensive, while liquid-cooled or immersion-cooled units for high-density AI workloads significantly raise the price.
- Configuration and Rack Units: More “U” spaces allow additional servers, increasing cost. Rack-based, cabinet-based, and containerized designs offer different price points.

- **Deployment Environment:** Edge locations, remote sites, or harsh environments may require ruggedized or prefabricated units, affecting cost .
- **Vendor and Brand:** Prices vary by manufacturer, with options from Schneider Electric, Vertiv, Huawei, Supermicro, and white-label providers on platforms like Alibaba .

Market Trends

The micro data center market is growing rapidly, driven by AI, 5G, and edge computing. SMEs increasingly adopt compact modules to reduce latency and capital expenditure, while hyperscale operators expand modular deployments for AI workloads . Prefabricated, plug-and-play designs allow rapid deployment, scalability, and flexibility, making them attractive for small offices, retail outlets, telecom towers, and industrial sites .

Summary

- Entry-level micro-modules: \$82-\$935
- Integrated single-rack modules: \$4,350-\$36,000
- High-density/customized modules: \$100,000+
- Key cost drivers: power, cooling, rack size, deployment environment, and vendor choice
- Market trend: Rapid growth due to AI, edge computing, and 5G deployments These figures provide a practical framework for budgeting and planning micro data center deployments in 2026.

Article Content

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Other types of modular data centers cost less; on average, an IT module costs \$625,000, cooling modules run \$499,000 and all-in

Micro-Module Data Centers: Innovative Solutions for Modern Data Centers ...

A micro-module data center is a modular form of data center infrastructure that divides the facility into independent,

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