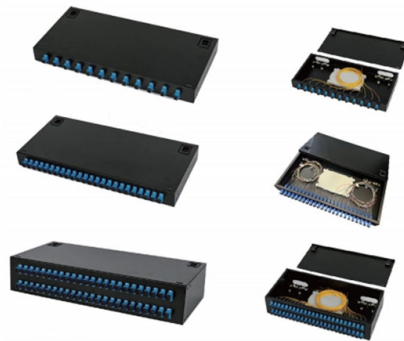


Cost of Micro-modules in the Data Center



AI Overview

Micro-modular data center units typically range from \$82 to \$935 for small-scale edge devices, while fully integrated micro-modular cabinets can cost tens of thousands depending on power, size, and features.

Pricing Overview Micro-modular data centers (MDCs) are self-contained, prefabricated units that integrate compute, storage, networking, power, and cooling into compact enclosures. For ultra-compact edge devices, such as mini PCs or NAS-based micro-servers, prices generally range from \$82 to \$935, depending on CPU type (from N100 to Intel i7), RAM, and SSD configurations. These are suitable for small-scale deployments, firewall applications, or private cloud storage. For larger integrated single-rack or multi-cabinet micro-modular units, costs increase significantly. A single cabinet with 3 kVA power capacity may be sufficient for a small retail branch or home office, while units supporting 10 kVA or more for healthcare, telecom, or enterprise workloads can cost tens of thousands of dollars, reflecting the additional power, cooling, and monitoring infrastructure.

Factors Influencing Cost

- Power Capacity and Cabinet Size:** More kVA and additional "U" spaces for servers increase cost. Units range from 1 to 10 cabinets with 3–20 kVA power capacities.
- Cooling and Thermal Management:** High-density or outdoor modules may require advanced cooling solutions, which add to the price.
- Deployment Type:** Containerized or prefabricated modules designed for rapid deployment are more expensive than ultra-compact edge nodes but offer scalability and faster setup.
- Integrated Features:** Units with UPS, batteries, advanced networking, remote monitoring, and fire suppression systems cost more but reduce operational complexity.
- Use Case and Location:** Edge deployments in remote or space-constrained locations may require specialized modules, influencing cost.

Market Trends The micro-modular data center market is growing rapidly due to edge computing, AI, and 5G demands. SMEs increasingly adopt "Edge-as-a-Service" solutions.

Article Content

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Micro Module Data Center Solutions: \$28.6B by 2025, 14.7% CAGR

Micro module solutions offer a compelling alternative to traditional data centers, providing rapid deployment, lower total cost of ownership (TCO), and enhanced operational flexibility.

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AI data centers are swallowing the world's memory and

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