

How much does a micro-module computer room cost

Article Overview

A micro-module computer room typically costs between \$50,000 and \$200,000, depending on size, power capacity, and customization.

Overview

A micro-module computer room, or micro modular data center, is a compact, self-contained IT facility that integrates servers, power backup, cooling, security, and monitoring into a single pre-fabricated unit . These units are ideal for small offices, retail branches, healthcare clinics, telecom base stations, or any location with limited space or a need for rapid deployment .

Factors Affecting Cost

- o Size and Number of Cabinets: Most micro-modules range from 1 to 10 cabinets, with each cabinet providing a certain number of "U" spaces for servers. More cabinets increase both capacity and cost .
- o Power Capacity: Units typically offer 3 kVA to 20 kVA. Higher power requirements for critical systems, such as healthcare or financial applications, increase the price .
- o Cooling and Environmental Controls: Integrated cooling systems, humidity control, and leak detection add to the cost but improve efficiency and reliability .
- o Deployment and Customization: Pre-integrated, factory-tested units reduce on-site labor and construction costs, but custom configurations or ruggedized designs for industrial environments can raise the price .
- o Optional Features: Remote monitoring, advanced security, and energy-efficient UPS systems may also affect the total cost .

Cost Comparison and Savings

- o Upfront Costs: Micro-modules are significantly cheaper than traditional data centers, which can cost millions of dollars per megawatt .
- o Construction Savings: Prefabrication reduces on-site labor and construction time by up to 90%, and space requirements can be reduced by up to 80% .
- o Operational Savings: Efficient cooling and low PUE (as low as 1.4) reduce energy bills, making the total cost of ownership lower over time .

Typical Price Range

- o Small office or single-cabinet unit: Approximately \$50,000-\$80,000
- o Medium deployment (3-5 cabinets, 10 kVA): Around \$100,000-\$150,000
- o Larger or industrial-grade units (up to 10 cabinets, 20 kVA): Can reach \$200,000 or more



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Conclusion

The cost of a micro-module computer room varies widely based on capacity, power, cooling, and customization. While the initial investment is lower than traditional data centers, the real advantage lies in rapid deployment, space efficiency, and long-term operational savings. For precise pricing, it is recommended to consult vendors with your specific requirements, as modular solutions can be tailored to different environments and workloads .

The micro-module supports the push-in deployment of the whole rack, and the computer room and transportation aisle should be

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Selecting the right micro data center solution requires a strategic evaluation beyond price alone. B2B buyers must assess technical

A Micro Modular data center is a self-contained, pre-built IT solution that packs everything you need--servers, power

Understanding the cost structure of a micro modular data center is essential for budgeting. While specific prices

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The cost of a modular clean room can vary substantially. However, most experts say that this type of clean room typically costs

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Modular data centers are prefabricated buildings such as a container that house servers, data hall, or data

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