

# How much does it cost to build a micro-module data center



## AI Overview

A micro-module data center typically costs between \$50,000 and \$500,000 depending on size, power capacity, and cooling requirements.

**Initial Capital Costs** The cost of a micro modular data center varies based on space, power, and cooling needs. Most units range from 1 to 10 cabinets with power capacities between 3 kVA and 20 kVA. A small setup for a retail branch or home office with a single cabinet and 3 kVA power may cost around \$50,000 to \$100,000, while larger units for healthcare or telecom applications can reach \$300,000 to \$500,000 due to higher power and cooling requirements. These units are pre-built, factory-tested, and plug-and-play, reducing on-site construction costs compared to traditional data centers. Cooling systems are a significant cost driver. Options include top-mounted integrated AC, rack-mounted split AC, and in-row cooling, with higher-density setups requiring more advanced cooling solutions, which increases the price. Efficient cooling also reduces long-term energy costs, with Power Usage Effectiveness (PUE) as low as 1.4.

**Operational Costs** Operating a micro data center is considerably cheaper than a full-scale facility. Small server rooms or micro data centers typically incur \$50,000 to \$100,000 annually for electricity, cooling, maintenance, and staffing. Electricity is the largest expense, accounting for 40% to 60% of operational costs, while cooling consumes 30% to 40% of total energy use. Labor costs for IT staff and network engineers can range from \$70,000 to \$150,000 annually, depending on the complexity of the deployment.

**Cost Advantages** Micro modular data centers offer several cost benefits over traditional facilities: Lower upfront investment due to pre-fabrication and minimal site preparation. Faster deployment, often within hours, reducing labor and construction costs. Scalability, allowing incremental expansion b...

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