Price of Single-Row Micro-Modular Data Center



Overview

Explore micro data center cost trends for 2026. Compare pricing across edge nodes, integrated cabinets, and liquid-cooled modules.

Key Takeaways

The price of a single-row micro-modular data center typically ranges from $20,000 to $100,000 depending on power capacity, cabinet size, and integrated features. Pricing OverviewSingle-row micro-modular data centers are compact, pre-engineered units that integrate servers, power distribution, cooling, security, and monitoring into a single cabinet or row. For small-scale deployments, such as branch offices, healthcare clinics, or telecom base stations, the cost is primarily influenced by: Number of cabinets and U-space: A single cabinet (1U–42U) is the most common single-row configuration, with larger U-space increasing cost slightly.

Power capacity: Units range from 3 kVA to 20 kVA. A 3 kVA single-cabinet unit is more affordable, while higher power units for critical workloads cost more. Integrated features: Cooling systems (precision air conditioning or liquid cooling), UPS and battery backup, fire suppression, and intelligent monitoring add to the price.

Customization and scalability: Factory-integrated solutions with flexible expansion options or specialized enclosures (NEMA 3R or IP54 rated) can increase costs. Typical Price RangeEntry-level single-row units: $20,000–$40,000 for basic configurations with minimal power and standard cooling. Mid-range units: $40,000–$70,000 for units with higher power capacity, advanced cooling, and integrated monitoring.

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High-end or fully customized units: $70,000–$100,000+ for units with maximum power, redundant systems, and specialized environmental protection. ApplicationsSingle-row micro-modular data centers are ideal for: Edge computing and low-latency applicationsSmall- and medium-sized enterprise IT infrastructureRemote or space-constrained locationsRapid deployment scenarios where traditional construction is impractical Key ConsiderationsWhen budgeting for a single-row micro-modular data center, consider: Total cost of ownership: Energy efficiency, maintenance, and scalability can reduce long-term costs. Deployment speed: Pre-fabricated units can be operational within hours, reducing installation costs.

Vendor selection: Leading providers include SOETECK, Huawei, SHENGLIN, and Delta, with options available through B2B platforms like Alibaba for bulk purchases. In summary, a single-row micro-modular data center offers a compact, scalable, and rapidly deployable solution, with prices ranging from $20,000 to $100,000 depending on configuration, power, and integrated features.

Article Content

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Modular Data Centers: System Architecture and Benefits

Modular Data Centers: System Architecture and Benefits The modular data center indicated here is built with a number of racks, UPSs, power distribution cabinets, power distribution units, air conditioners

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