

Cost of Integrated Micro-modular Data Center



Article Overview

The cost of an integrated micro-modular data center typically ranges from \$50,000 to over \$500,000 depending on size, power capacity, and customization.

Cost Overview

Integrated micro-modular data centers are pre-built, self-contained units that include servers, power backup, cooling, security, and monitoring systems, designed for rapid deployment at edge locations or space-constrained sites . Pricing varies widely based on several factors:

- **Unit Size and Rack Count:** Small units with 1-2 cabinets cost significantly less than larger units with 5-10 cabinets. Each cabinet typically supports 3-20 kVA of power .
- **Power Capacity:** Higher power requirements increase costs due to larger UPS systems, PDUs, and cooling needs. For example, a 3 kVA unit for a small office is much cheaper than a 20 kVA unit for a healthcare clinic .
- **Cooling Systems:** Precision air conditioning or liquid cooling for high-density racks adds to the price. Advanced cooling solutions can reduce operational costs but increase upfront investment .
- **Customization and Integration:** Factory-integrated units with embedded monitoring, security, and management software are more expensive than standard rack-only solutions .
- **Deployment Location:** Edge deployments in remote or harsh environments may require ruggedized enclosures (IP54 or IP65 rated), which can increase costs

Article Content

Modular Data Center Solutions | Dell USA

From leveraging the latest cooling technologies to reducing overall data center costs, our focus is on the now and what's best for our

How Modular Data Centers Provide Options for State & Local

“Modular data centers integrate essential data center components — including power, cooling, and IT — into modular units or

Modular Data Centers: The Rise and the Advantages

Modular data centers adopt a modular, standardized and highly-integrated design that makes the system more stable. In addition,

Data Center Buildout Cost: Complete Pricing Guide

Data center buildout costs depend heavily on factors like facility size, geographic location, tier classification, and the

Modular Data Center Market Size | Industry Report, 2030

Modular Data Center Market Summary The global modular data center market size was estimated at USD 29.04 billion in 2024 and

MDC Presentation MB

Designing electrical systems for prefabricated modular data centers presents several unique challenges due to their modular, pre

Modular Data Centers: An Ideal Solution for Digital Growth in the ...

There are several types of modular datacenters. These can vary in size from large, manufactured units and shipping containers to

Prefabricated Data Center Modules

Accelerate AI data center deployment with a prefabricated modular pod—factory-built with power and cooling for scalable, high

Modular Data Center Market Size, Growth and Forecast 2032

Modular Data Center Market size was valued at USD 30.26 billion in 2024 and is anticipated to reach USD 110.69 billion by 2032, at

Micro Data Center Cost: Key Pricing Factors

Discover micro data center cost factors, from hardware to deployment. Get insights on pricing tiers and ROI. Click to explore

Modular data center vs. traditional: When to choose each

Discover if a modular or traditional data center is best by comparing topics like cost, energy efficiency, scalability and

Modular Data Centers: When They Work, and When They Don't

Modular data centers offer fresh opportunities for the industry, but that doesn't mean they are right for every occasion.

Modular Data Center Guide: Types & When It Wins | ModulEdge

A modular data center is a complete data center, or a critical-infrastructure subsystem, that is engineered, integrated,

Micro Data Center

Delta InfraSuite can be applied in micro datacenters under 50 square meters or with an IT load under 20kVA. It is suitable for

Data Center Cost Per Rack / KW / MW / SQFT / Cooling / DG & UPS

A micro data center (MDC) is a low-scale highly modular data center that includes all the compute, storage, networking, power,

Data Centre Costs Explained: What You Actually Pay

Complete breakdown of data centre costs including power, colocation, construction, and operating expenses. Real pricing data

Contact Us

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