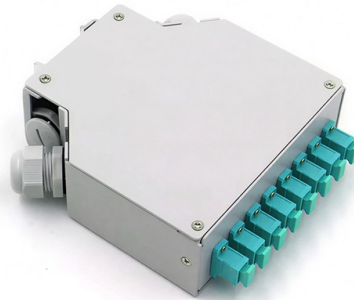


Tariff Cost Modular Data Center Outdoor Type



AI Overview

Tariffs on imported components and construction materials can increase the cost of modular outdoor data centers by 10–15% or more, significantly affecting project budgets and procurement strategies.

Impact of Tariffs on Modular Data Centers

Component Costs: Modular data centers rely heavily on imported servers, networking gear, switchgear, power units, and cooling systems. US tariffs, including Section 232 duties on steel, aluminum, and potentially electronics, have raised the cost of these components. For example, fiber optic cables and chips have seen year-over-year price increases of 5.6% and 3.6%, respectively, while bare PCBs and printed circuit assemblies rose by 1.5–2.3%. Imported servers alone accounted for 67.5% of relevant imports, with a 111% increase in first-quarter 2025 imports, reflecting front-loading to mitigate tariff impacts.

Construction Materials: Outdoor modular data centers also require steel, copper, and electrical infrastructure. Tariffs on these materials, even at a universal 10% rate, inflate construction costs and can add over \$1 million per megawatt to a typical data center project. This affects both the physical enclosure and the supporting power and cooling infrastructure.

Market Effects: Tariff-induced cost increases can slow adoption among small and medium enterprises, while larger enterprises may absorb costs or seek alternative sourcing strategies. The modular data center market is projected to grow to USD 125.1 billion by 2033, but tariffs could temporarily constrain growth by raising production and operational expenses.

Mitigation Strategies

Localization and Vendor Diversification: Sourcing components domestically or from tariff-exempt countries can reduce exposure to import duties.

Pre-Purchasing and Bulk Orders: Front-loading purchases of long-lead items helps lock in prices before tariff adjustments.

Modular Constructi...

Article Content

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May 3, 2026 Modular Data Center: Definitive Guide (Types, What's Included, When It Wins) A practical guide to modular data centers: types, architectures, what's included, and when prefabricated MDCs

Modular Data Centers: What They Are and What They Aren't

What is a Modular Data Center? Different Types of Prefabricated Data Centers 7 Advantages of Modular Data Centers 1. Lower Cost 2. Speed to Deploy 3. Avoidance of Red Tape 4.

Modular Data Center Market Size & Growth Drivers 2025 - 2031

Modular Data Center Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The Modular Data Center Market Report is Segmented by Solution and Services (Functional

Modular Data Centres: Prefab Construction, Cost, and

How modular and prefabricated data centres work. Covers construction speed, cost per MW, deployment models, leading vendors, and when modular makes sense.

Modular Data Center Cost: CAPEX, OPEX & Timeline Drivers

This piece breaks down the cost drivers that actually move the needle - on CAPEX, on OPEX, and on timeline. By the end, you'll know what questions to ask before engaging any modular

Tariff Trouble: Impact of Tariffs on Data Centers | S&P Global

Impact of tariffs on data centers involves various products, ranging from construction materials to electronics, causing uncertain cost increases that affect AI services.

EcoStruxure™ Modular Data Center | Schneider Electric

Transforming data center design and construction, modular data centers conquer space challenges and support quick scaling in industrial environments.

Prefabricated Data Center Modules

Accelerate AI data center deployment with a prefabricated modular pod—factory-built with power and cooling for scalable, high-density IT infrastructure. Schneider Electric Prefabricated Modular Pod

The ripple effects of new US tariffs on the Data Center supply chain

Servers, networking gear, switchgear and cooling systems—all heavy on foreign content—face tariff-related cost and schedule risks. Prolonged US-China tensions could reroute

Modular Data Centers: An Executives Guide

Modular data centers are a very specific type of modular building and are one of the most affordable and effective ways to get additional computing power. These centers range from small installations a few

The Impact of US Tariffs and Trade Policy on Data Centers

Data centers built in the United States need to be outfitted, and much of that equipment comes from outside the United States and would be affected by US import controls and regulations.

The cost of going modular

Modular data centers continue to grow in popularity, as evidenced by growing investment in modular technologies and by a recent spate of modular deployments by organizations across a

How Much Does a Data Center Cost? The Complete

See what a data center really costs in 2026, from build price per megawatt to monthly operating costs. A clear breakdown of every line item, with

Modular Data Center Market By Tariff Impact Analysis 2025

US tariffs on key components of modular data centers, such as servers, cooling systems, and power units, could raise the overall cost of production, affecting the affordability of these data

Modular data center | MDC | prefab | Eaton

The modular data center combines your servers—regardless of make or model—with Eaton electrical equipment in a single building, reducing complexity, speeding deployment, and delivering optimum

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.

Win-win tariff design and commercial considerations for data centers ...

If a data center is sited in the footprint of an organized market, operators may seek out cost-effective resources. If not, operators are restrained to the cost of a utility's default service.

Modular Data Center Market Size, Share & Growth, Report by 2034

The Modular Data Center Market estimated size and share is projected to exceed USD 144.23 billion by 2034, with a forecasted CAGR of 17.3% during the period.

Modular Data Center Market

Modular data centers allow businesses to grow their infrastructure on demand and with less downtime than traditional data centers. This flexibility is particularly beneficial to end users within industries,

The Modular Data Center Ultimate Guide

A modular data center is a quick, flexible, and cost-effective way to boost your data storage. Using prefabricated modules, these centers are

MDC Presentation MB

Designing electrical systems for prefabricated modular data centers presents several unique challenges due to their modular, pre-assembled nature and the need for scalability, efficiency, and reliability.

How Much Does It Cost to Build a Micro Modular Data Center?

A Micro Modular data center is a self-contained, pre-built IT solution that packs everything you need—servers, power backup, cooling, security, and monitoring.

An overview of containerized data centers and their benefits

A containerized data center, also known as a modular data center, is a data center within a container. For companies that need to increase IT capacity quickly, affordably and temporarily,

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For workloads above roughly 1 MW, the right answer is almost always a prefabricated room or a hybrid campus, not a stack of containers. For workloads under 100 kW that need to live

Harmonized Tariff Schedule

The Harmonized Tariff Schedule provides detailed tariff rates and statistical categories for merchandise imported into the United States.

Modular Data Center Cost: A Realistic 2026 Breakdown

Modular data center costs range from \$7,000 to \$12,000 per kW depending on capacity, redundancy requirements, and cooling technology. A complete 250 kW system typically costs \$2-3

The Complete Guide to Modular Data Center Solutions

Cooler data centers – Prior to the introduction of modular data center solutions, cooling was primarily the biggest data center expense, accounting for 40-80 percent of total operating costs.

Contact Us

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