

Central Asian Five Countries Tariff Costs Micro-module Data Center Rack Type

Article Overview

Micro-module data center rack costs in Central Asia are influenced by global tariffs on IT components, local import duties, and rack type, with potential cost increases of 15-25% for modular units.

Tariff and Cost Considerations

Micro-module or modular data centers rely on prefabricated enclosures, server racks, cooling systems, and power distribution units, many of which are imported from China, South Korea, Taiwan, or Europe. Global tariffs, such as the U.S. Section 301 tariffs, have historically increased costs for these components by 15-22%, particularly affecting specialized steel, cooling compressors, and power transformers used in micro data centers. Even if Central Asian countries are not directly subject to U.S. tariffs, imported components from affected regions may carry higher prices, which can increase the total cost of deployment.

Rack Types and Modular Configurations

Micro data centers typically come in three main rack or form factor types:

- o Rack-mounted units: Standard 19-inch or 21-inch racks, often up to 40 RU, suitable for indoor deployments in telecom or industrial facilities.
- o Containerized units: Prefabricated shipping-container-style modules, ideal for outdoor or remote deployments, offering integrated cooling and power systems.
- o Wall-mounted micro data centers: Compact units for edge computing, often deployed in small facilities or cell towers. The choice of rack type affects tariff exposure, as containerized and wall-mounted units often include specialized steel alloys and integrated cooling, which are more sensitive to import duties.

Central Asian Five Countries Tariff Landscape

While specific micro data center tariffs are not widely published, the WTO Tariff & Trade Data platform provides official import duty rates for Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan. Key points:

- o Steel and aluminum: Typically subject to 5-15% import duties, depending on the country and product classification.
- o Electrical and electronic components: Duties vary widely; semiconductors, power distribution units, and cooling equipment may face 0-10% tariffs, with additional VAT or customs fees.
- o Local assembly: Countries like Kazakhstan and Uzbekistan may offer reduced tariffs for locally assembled units, which can mitigate some cost increases.

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Practical Implications

- o **Budgeting:** Expect 15-25% higher costs for imported micro-module racks due to global supply chain pressures and tariffs on critical components .
- o **Sourcing strategy:** Consider regional suppliers in Russia, Turkey, or Eastern Europe to reduce exposure to high-tariff countries.
- o **Deployment planning:** Rack type selection (rack-mounted vs containerized) can influence both tariff costs and lead times, especially for outdoor or edge deployments.
- o **Regulatory monitoring:** Regularly check WTO tariff schedules and local customs regulations to anticipate changes in import duties and compliance requirements . By combining global tariff trends, local import duties, and rack type considerations, organizations can better forecast costs and optimize deployment strategies for micro-module data centers in the Central Asian Five countries.

This page has a list of countries by Tariff rate, applied, weighted mean, all products (%), according to officially-recognized

Beyond country-specific tariffs, levies on semiconductor chips have been paused as of April 14, 2025, by the US

World Tariff Profiles 2020 provides comprehensive information on the tariffs and non-tariff measures imposed by over 170 countries

The United States International Trade Commission is an independent, nonpartisan, quasi-judicial federal agency that fulfills a range

U.S. Customs and Border Protection

Exemptions for semiconductors that are for use: in U.S. data centers, repairs and replacements in the U.S., research and

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Impact of tariffs on data centers involves various products, ranging from construction materials to electronics, causing uncertain cost

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This working paper analyzes the impact of infrastructure and trade facilitation on imports and exports in five Central Asian countries

Powered by real-time data, e2open's import duty calculator shows you the impact of tariffs on your landed costs and relevant trade

The micro mobile data center market finds itself at an unexpected crossroads as U.S. trade policies fundamentally

About this publication World Tariff Profiles is a co-publication of the WTO, ITC and UNCTAD on market access for goods. This

List of countries by tariff rate Countries by tariff rate, applied, weighted mean, all products (%), 2025, according to World Bank This is

The Harmonized Tariff Schedule of the United States (HTS) sets out the tariff rates and statistical categories for all merchandise

Summary tables, providing data by country/territory, list the average "bound" (maximum) tariffs each economy can apply to its

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