Dimensions of server racks used in mining



Overview

Server Rack Sizes & Dimensions Guide 2026 In this guide, we'll break down the key server rack dimensions and the fit-out factors that matter most when choo.

Key Takeaways

Mining server racks typically follow the 19-inch standard width, with heights ranging from 24U to 48U and depths from 24 to 48 inches, with specialized open-frame or enclosed racks for ASIC miners.

Standard Rack Dimensions

Width: Most mining racks use the 19-inch (482 mm) standard width, compatible with EIA-310 equipment, including servers, switches, and ASIC miners. Height: Measured in rack units (U), where 1U = 1. 75 inches (44.

45 mm). Common heights for mining racks are 24U, 36U, 42U, and 48U, with 42U being the most widely used for scalability. Depth: Depth varies depending on equipment size.

Typical ranges are 24–48 inches (600–1200 mm). Shallow racks (24–27 inches) suit switches and patch panels, while deeper racks (42–48 inches) accommodate servers, GPU rigs, and ASIC miners.



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Mining-

Specific Rack TypesOpen-Frame Racks: Steel structures without side panels or doors, maximizing airflow and ease of maintenance. They typically hold 4–12 miners per rack, depending on the model. Enclosed Cabinets: Include side panels, front doors, rear exhaust channels, and acoustic insulation.

These racks can house up to 20–30 miners, providing dust protection, noise reduction, and controlled airflow.

Hydro-

Cooling Racks: Designed for liquid-cooled mining setups, integrating plumbing for coolant loops, leak detection, and high-density mounting. Some hydro racks, like the AP-N240, can support up to 240 Antminer Hydro units in a space-efficient design.

Additional Considerations

Mounting Rails: Adjustable steel rails are pre-set for standard ASIC miner widths (e.g., Antminer S-series, WhatsMiner M-series) to ensure compatibility. Power Distribution: Integrated PDU rails with C19/C20 outlets support continuous ASIC loads (16A–63A), with options for per-outlet metering and remote switching. Airflow & Cooling: Open-frame racks optimize through-cooling, while enclosed racks and hydro-cooling systems manage heat via ducted exhausts or liquid loops.

Summary

For mining operations, rack selection depends on miner type, cooling method, and density requirements. Standard 19-inch width, 42U height, and 42–48 inch depth are common baselines, while open-frame, enclosed, or hydro-cooled racks provide specialized solutions for airflow, noise, and high-density deployments. Proper rack sizing ensures efficient cooling, organized cabling, and scalable mining infrastructure.

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