

Standard server racks for data centers in Thailand



AI Overview

Thailand's data center racks typically follow the 19-inch standard, with 42U to 48U full-height cabinets, modular designs, and options for high-density and liquid-cooled deployments.

Rack Types and Configurations

Data centers in Thailand commonly use 19-inch standard racks, which comply with EIA-310 specifications, along with 23-inch network equipment racks for specialized applications. Racks are available in several types:

- Full racks (42U–48U):** Most widely used, supporting high-density servers and AI workloads.
- Half racks and quarter racks:** Growing in popularity for edge computing and smaller deployments.
- Open-frame racks:** Provide superior ventilation and easy access for cabling.
- Enclosed cabinets:** Offer enhanced security and support hot/cold aisle containment for efficient cooling.

Materials and Design

Racks are typically made from steel, aluminum, or composite alloys, designed for durability and high load-bearing capacity. Modular designs allow tool-less installation, easy expansion, and integration with cable management systems, PDUs, and cooling accessories. Perforated doors with over 70% open area ensure optimal airflow for high-density setups.

Cooling and High-Density Support

Modern Thai data centers increasingly adopt liquid-cooling integration and hot/cold aisle containment to manage thermal loads exceeding 100 kW per rack. Intelligent air containment solutions protect critical IT equipment while maximizing energy efficiency.

Market Trends

The Thailand data center rack market is growing rapidly, with a projected CAGR of 4.7–12% depending on the source, driven by cloud adoption, AI workloads, and government digital transformation initiatives. Full racks dominate the market, but quarter racks are expected to grow fastest. Major players include Schneider Electric, Delta Electronics, Rittal, Vertiv, Eaton, Hewlett Packard Enterprise, and Dell. Additional Co...

Article Content

Server Rack Buying Guide: Everything You Need To Know

This server rack buying guide will help you understand what a server rack is and key factors for your data center environment or IT closet.

Data Center Server Rack: The Ultimate Guide

Master the art of data center server rack management with our ultimate 2024 guide. Rack selection, organization, and

Smart, modular design Rack Solutions | Delta Electronics

With its high load-bearing capability and optimal ventilation design, the Delta modular server rack is an ideal choice for high density data center set-ups. The

Dell PowerEdge Rack Servers Quick Reference Guide

Data centers today are faced with the emerging demands of AI, requiring scalable, efficient and high-performance solutions to handle both mainstream and accelerated workload demands. In this

Rack Servers from 1U to 5U for Data Center Workloads

1U, 2U, 3U, 4U, 5U rack servers supporting AMD, Intel x86, and ARM processors, built for HPC, SDS, virtualization, and enterprise data centers.

Server Racks, Data Center Cabinets & Power Units

Explore high-performance server racks, data center cabinets, and power distribution solutions from CPI. Optimize space, cooling and uptime today.

Data Center Engineer Career Guide: Roles, Skills, Certifications ...

Complete guide to data center engineering careers in 2026 — covering 6 specialist roles, technical skills, Uptime Institute & BICSI certifications, salary ranges by region, and career

Rack PDU | Power distribution units for server racks | Eaton

Each of these rack PDU types offers a variety of capabilities to fulfill the needs of your IT environment. Eaton PDUs for server racks are ready to be deployed in any application, from small/medium

Data Center Solutions You Can Rely On

Although we work at the forefront of UPS, ICT infrastructure and modular data center technology, we offer a high level of personalized service. When you make

Thailand Data Center Rack Market Size, Share, and Industry Trends ...

The Thailand Data Center Rack Market valued at \$187.4 Million in 2026 is projected to expand to \$638.9 Million by 2035, advancing at a 14.60% CAGR over the analysis window. Cloud computing providers

The Ultimate Guide to Choosing the Best Server Racks for Your Data Center

As data centers have grown in complexity and size alongside the exponential expansion of the internet, server racks have also grown to become an indispensable component of network infrastructures.

19-inch rack

Nineteen-inch racks in two-post or four-post form hold most equipment in enterprise data centers, Internet service provider facilities, and professionally designed

What is a hyperscale data center?

What is a hyperscale data center? A hyperscale data center is a massive data center that provides extreme scalability capabilities and is engineered for large

Thailand Data Center Rack Market (2025-2031) | Trends, Outlook

The Thailand Data Center Rack Market has seen a significant impact from the COVID-19 pandemic, influencing how data centers design and deploy rack infrastructure to support the increasing demand

Safest Way to Move Data Center Equipment

Most data center workplace injuries happen when employees move heavy data center equipment. Our customers say that our data center lifts give them the

19 inch Server Rack Thai

We stock server cabinets from 9U to 47U up to 1400mm deep. Full range of cabinet accessories including fixed/sliding shelves, fan trays, plinth, PDU. Sound proof server cabinet available.

Rack Servers | 1U to 5U Rackmount Servers

GIGABYTE 1U, 2U, 3U, 4U, 5U rack servers are optimized for demanding data center workloads, including HPC, SDS, and virtualization. Compare models to find the right configuration.

Best Practices Guide for Energy-Efficient Data Center Design

This guide concludes with a section on metrics and benchmarking values by which a data center and its systems energy efficiency can be evaluated. No design guide can offer “the most energy- efficient”

Racks and Enclosures

Explore Schneider Electric open and enclosed server rack and network rack solutions for a variety of environments including data centers, server rooms, network closets, offices, industrial, and specialty

Digital Infrastructure Authority | Tier Certification & Training

Training & Education Network Data Center Healthcheck Uptime Institute is the Standard bearer for Digital Infrastructure performance. Our Tier Standard has

Racks and Accessories

Optimize space, airflow, and cable management with Schneider Electric's high-performance server racks and network racks. Designed for data centers, IT rooms, and networking environments, our racks

Thailand Data Center Rack Market Size, Growth & Trends Report, 2031

Our study defines the Thailand data center rack market as revenue earned from the sale of new, factory-assembled quarter, half, and full server racks, both open-frame and enclosed

SHIMADZU CORPORATION

Since 1875, Shimadzu is pursuing leading-edge science and technologies in analytical and measuring instruments including chromatographs and mass

Modular rack design for optimizing space utilization

The Delta InfraSuite modular server rack is a simple parallel rack design with a refined and solid exterior that maintains a uniform appearance for the data

Thailand Data Center Rack Server Market (2025-2031) Outlook

With changes in data center requirements and an increased demand for computing power, businesses in Thailand are adopting data center rack server solutions for optimized server density, performance,

Modular rack design for optimizing space utilization | Delta ...

With its high load-bearing capability and optimal ventilation design, the Delta modular server rack is an ideal choice for high density data center set-ups. The popularity of modular rack solutions is rapidly

The Basics of Data Center Server Racks | Enconnex

Learn about the basics of data center server racks. Get information on server rack airflow management, sizing, power consumption, cable management & more.

MGX Platform for Modular Server Design | NVIDIA

Standards Compatible MGX, supporting open standards such as PCIe, OCP, and Electronic Industries Alliance (EIA) rack specifications, integrates quickly into

Rack Servers from 1U to 5U for Data Center Workloads

Available in 1U to 5U rack densities, with support for single and multi-socket configurations for x86 processors from AMD and Intel, as well as ARM processors from Ampere, extensive DDR5 memory,

Contact Us

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