# ZITHA TECH SPECIALTY CABLES (Pty) Ltd

# Intelligent Data Center Rack Manufacturer



## Overview

Rakworx RakworX, a trusted partner for VARs, Resellers, Low Voltage Contractors, and IT Consultants in the data center industry. With Data Center & IT Infr.

## Key Takeaways

Leading intelligent data center rack manufacturers include Schneider Electric, Vertiv, Eaton, Rittal, and HPE, offering AI-enabled, modular, and high-density rack solutions.Top Manufacturers and Their Offerings

Schneider Electric is a global leader in smart rack solutions, integrating sensors, airflow analytics, and hybrid cooling for high-density and AI-ready data centers, often collaborating with NVIDIA for liquid-cooled AI racks . Vertiv provides modular and scalable racks with intelligent power distribution units (PDUs) and monitoring capabilities, supporting predictive maintenance and energy efficiency. They recently expanded their portfolio by acquiring Great Lakes Data Racks & Cabinets . Eaton focuses on energy-efficient rack architectures, including 800 VDC power systems for next-generation AI and HPC environments, enhancing both performance and sustainability . Rittal and HPE offer integrated rack and power ecosystems, combining modularity, high-density support, and smart monitoring to optimize space and operational efficiency . Other notable players include Dell Technologies, Fujitsu, IBM, Cisco, Huawei, Oracle, Panduit, Belden, Legrand, and nVent, many of which are expanding into modular, AI-enabled, and edge-focused rack solutions .

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Key Features of Intelligent Racks
• AI and Sensor Integration: Real-time monitoring of temperature, airflow, and power consumption for predictive maintenance .

• High-Density and Modular Design: Supports hyperscale and edge deployments with scalable configurations .

• Energy Efficiency: Optimized airflow and hybrid cooling reduce operational costs and carbon footprint .

• Software-Defined Management: Virtualized control of physical racks for dynamic resource allocation and improved efficiency .

• Edge and Hyperscale Readiness: Compact, rugged designs suitable for distributed and high-performance computing environments .
Market Trends

The intelligent data center rack market is projected to grow from USD 5.17 billion in 2025 to USD 9.42 billion by 2030, driven by hyperscale and colocation buildouts, AI workloads, and the adoption of smart rack ecosystems . Vendors embedding power, cooling, and monitoring directly into rack architecture are shaping the next growth curve, emphasizing sustainability, automation, and AI-driven management . These manufacturers and innovations provide a comprehensive solution for modern data centers seeking scalable, energy-efficient, and intelligent rack infrastructure.

## Article Content

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This list of the top companies of Data Center Rack is drawn from assessments by Mordor Intelligence analysts and expert advisors

Technology & Data Centers

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Intelligent Power Distribution Units

With various options available, including plug-and-play sensors, the industry is turning to Intelligent Power Distribution Units to meet

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