

OCP Rack Market Size, Share & Trends Analysis Report By Component (Power Shelves, Cooling Components), By Rack Type (Open Rack V1, Open Rack V2), By Cooling Technology (Air Cooling, Immersion Cooling), By End-use, And Segment Forecasts, 2026 - 2033

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Abstracts

The global OCP rack market size was valued at USD 1.8 billion in 2025 and is projected to grow from USD 2.1 billion in 2026 to USD 8.2 billion by 2033, at a CAGR of 21.4% from 2026 to 2033. North America dominated the market, accounting for the largest revenue share of 42.7% in 2025. Growing adoption of open and standardized data center architectures is driving market growth.

The rapid expansion of hyperscale data center infrastructure is driving market growth in the OCP rack market by increasing demand for standardized, high-density rack architectures that support large-scale cloud and digital infrastructure deployments. Hyperscale operators increasingly require rack systems that can accommodate greater computing density, improved airflow management, integrated power distribution, and modular deployment strategies across thousands of server installations. OCP racks are increasingly adopted in large cloud campuses where operational consistency, manufacturing standardization, and deployment efficiency are critical priorities. Their open architecture enables easier integration of servers, networking equipment, storage systems, and cooling components while supporting rapid infrastructure expansion. The growing construction of hyperscale facilities across global cloud ecosystems is propelling demand for OCP rack solutions.

The increasing adoption of artificial intelligence and high-performance computing

workloads is driving market growth for OCP racks, as data centers require rack platforms that support power-intensive GPU servers and accelerated computing infrastructure. AI clusters generate substantial thermal loads and require optimized rack layouts that facilitate efficient airflow, cable management, and power delivery across densely populated server environments. OCP rack designs are increasingly aligned with modern AI infrastructure requirements that prioritize scalability, serviceability, and integration with advanced cooling technologies. Operators increasingly deploy rack systems that support flexible equipment configurations while accommodating future increases in computing density. The continued expansion of AI-ready data center infrastructure drives market growth in advanced rack architectures.

The growing emphasis on modular data center construction is driving market growth in the OCP rack market by encouraging the adoption of standardized infrastructure components that simplify deployment and expansion. Data center operators increasingly construct facilities with prefabricated modules and standardized infrastructure designs, reducing installation complexity and accelerating project execution. OCP racks support modular deployment strategies through standardized dimensions, interoperable component compatibility, and simplified integration with power and cooling infrastructure. This approach allows operators to expand capacity incrementally while maintaining architectural consistency across multiple facilities. The growing preference for modular, scalable data center construction contributes to the broader adoption of OCP rack systems.

Global OCP Rack Market Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global OCP rack market report based on component, rack type, cooling technology, end-use, and region:

Component Outlook (Revenue, USD Million, 2021 - 2033)

Rack Frames and Enclosures

Power Shelves

Busbars and Power Distribution Components

Cooling Components

Others

Rack Type Outlook (Revenue, USD Million, 2021 - 2033)

Open Rack V1

Open Rack V2

Open Rack V3

Others

Cooling Technology Outlook (Revenue, USD Million, 2021 - 2033)

Air Cooling

Direct-to-Chip Liquid Cooling

Immersion Cooling

Hybrid Cooling

Others

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hyperscale Data Centers

Cloud Service Providers

Colocation Data Centers

Telecom Operators

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

U.K.

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

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