

# Global Smart Rack Controller Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Smart Rack Controller market size is expected to reach \$ 1104 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global production capacity for smart rack controllers reached approximately 720,000 units, with actual output of about 529,000 units. The average selling price was around USD 1,180 per unit. Gross margins typically ranged from 40% to 60%, depending on hardware integration level, embedded software capability, and compatibility with data center infrastructure management (DCIM) platforms. A smart rack controller is an intelligent control and monitoring device installed within data center or telecom racks to manage power distribution, environmental conditions, and equipment status. It integrates sensors, communication modules, and control logic to enable real-time monitoring, remote management, and automated responses to abnormal conditions, serving as a key node in intelligent rack and data center management systems.

Upstream includes microcontrollers, communication chips, power management ICs, sensors (temperature, humidity, smoke, door status), and enclosure components. Midstream focuses on hardware assembly, firmware development, communication protocol integration, and system testing. Downstream applications are mainly data centers, telecom base stations, edge computing nodes, industrial control cabinets, and smart infrastructure projects, often integrated with DCIM or BMS platforms.

The smart rack controller market is driven by the rapid expansion of data centers, increasing rack density, and the shift toward intelligent and unmanned operation models. As energy efficiency, uptime, and operational transparency become critical performance indicators, rack-level monitoring and control are gaining strategic

importance. Compared with traditional standalone sensors, smart rack controllers offer integrated management, standardized communication, and improved scalability. Technological trends such as edge intelligence, PoE-powered devices, and tighter DCIM integration are enhancing system value. While price competition exists in entry-level products, demand for high-reliability, feature-rich controllers continues to grow, particularly in hyperscale and colocation data centers. Overall, the market shows strong medium- to long-term growth potential, supported by digital infrastructure investment and intelligent operation requirements.

This report studies the global Smart Rack Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smart Rack Controller and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Smart Rack Controller that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Smart Rack Controller total production and demand, 2021-2032, (K Units)

Global Smart Rack Controller total production value, 2021-2032, (USD Million)

Global Smart Rack Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Smart Rack Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Smart Rack Controller domestic production, consumption, key domestic manufacturers and share

Global Smart Rack Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Smart Rack Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Smart Rack Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Smart Rack Controller market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Schneider Electric, Vertiv, Eaton, APC by Schneider Electric, Raritan (Legrand), Panduit, ABB, Huawei, Delta Electronics,

Siemens, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Smart Rack Controller market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global Smart Rack Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Smart Rack Controller Market, Segmentation by Type:

Environmental Monitoring

Asset Location

Access Control

Global Smart Rack Controller Market, Segmentation by Installation Mode:

Rack-mounted 1U

Vertical Wall-mount

External Pole-mount

Global Smart Rack Controller Market, Segmentation by Application:

Data Center

Communication Base Station

Edge Computing Node

Industrial Control Cabinet

Smart Infrastructure

Others

Companies Profiled:

Schneider Electric

Vertiv

Eaton

APC by Schneider Electric

Raritan (Legrand)

Panduit

ABB

Huawei

Delta Electronics

Siemens

Cisco Systems

IBM

Sunbird Software

FNT GmbH

Honeywell

**Key Questions Answered:**

1. How big is the global Smart Rack Controller market?
2. What is the demand of the global Smart Rack Controller market?
3. What is the year over year growth of the global Smart Rack Controller market?
4. What is the production and production value of the global Smart Rack Controller market?
5. Who are the key producers in the global Smart Rack Controller market?
6. What are the growth factors driving the market demand?

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