

# Global Rack-Mount Transceiver Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Rack-Mount Transceiver market size is expected to reach \$ 2129 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

In 2025, global production of rack-mount transceivers reached 21.7974 million units, with an average selling price of US\$57.5 per unit. Global annual production capacity for rack-mount transceivers is approximately 30 million units, with a gross margin of approximately 27.6%. Rack-mount transceivers, often simply referred to as 'rack-mounted transceivers' or 'optical modules,' are hardware devices used in fiber optic communications and high-speed networks. They are designed to be installed in standard racks for centralized management and network expansion. The upstream of the rack-mount transceiver industry chain includes lasers, modulators, detectors, and couplers; the midstream consists of rack-mount transceiver manufacturers; and the downstream primarily comprises industries such as data centers, finance, and telecommunications.

The rack-mount transceiver market is experiencing rapid expansion and evolution. Driven by the demand for low-latency, high-bandwidth interconnects from data centers, cloud computing, and high-performance computing, modular solutions with speeds of 400G and above have become mainstream. However, challenges related to high density, low power consumption, and thermal management remain. Global manufacturers are improving cost-effectiveness and supply resilience through innovations in new materials such as optoelectronic integration and silicon-based photonics, enhanced standardization and interoperability, and diversified supply chain layouts. The market is characterized by high competition and a trend towards vertical industry customization.

This report studies the global Rack-Mount Transceiver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Rack-Mount Transceiver 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 Rack-Mount Transceiver that contribute to its increasing demand across many markets.

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

Global Rack-Mount Transceiver total production and demand, 2021-2032, (Units)

Global Rack-Mount Transceiver total production value, 2021-2032, (USD Million)

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

Global Rack-Mount Transceiver consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Rack-Mount Transceiver domestic production, consumption, key domestic manufacturers and share

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

Global Rack-Mount Transceiver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Rack-Mount Transceiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Rack-Mount Transceiver 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 National Instruments, H3C, TP-LINK, Pheenet, KEMYOND, HiOSO, Inmidas, TRT Fiber, APT, NVT Phybridge, 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 Rack-Mount Transceiver market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Rack-Mount Transceiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Rack-Mount Transceiver Market, Segmentation by Type:

14 Slots

16 Slots

17 Slots

Others

#### Global Rack-Mount Transceiver Market, Segmentation by Fiber Optic Type:

Single-Mode Rack-Mount Transceiver

Multi-mode Rack-Mount Transceiver

Global Rack-Mount Transceiver Market, Segmentation by Transmission Rate:

100 Mbps Rack-Mount Transceiver

Gigabit Rack-Mount Transceiver

10 Gigabit and Above

Global Rack-Mount Transceiver Market, Segmentation by Application:

Data Center

Financial

Telecommunications Industry

Industrial

Construction

Education

Others

Companies Profiled:

National Instruments

H3C

TP-LINK

Phenet

KEMYOND

HiOSO

Inmidas

TRT Fiber

APT

NVT Phybridge

HCSTCOM

Ruijie

Transcend Communication

Huizhou Changfei Photoelectricity Technology

XYT

Xallcom

ONV

Chengdu Beiyi Xiantong Technology

SMTX

Shenzhen GVT Optical Electronic Technology

SXL

Gkvideo

Wuhan Rayton Network Technology

MSTCOM

ZXGFIBER

Future Technology

**Key Questions Answered:**

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

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