

Global 800G Data Center Transceiver Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 800G Data Center Transceiver market size is expected to reach \$ 27239 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).

In 2025, global 800G Data Center Transceiver production reached approximately 13.23 million units, with an average global market price of around US\$620 per unit.

The gross profit margin of major companies in the industry is between 26% ? 44%.

In 2025, the global production capacity of 800G Data Center Transceiver was approximately 17.63 million units.

800G Data Center Transceiver is a high-speed optical module used for ultra-high-bandwidth interconnection in cloud data centers and AI computing clusters. It converts electrical signals and optical signals to support high-capacity data transmission, low latency, and dense network deployment.

The industrial chain includes upstream optical chips, DSP chips, lasers, photodiodes, lenses, PCBs, housings, and connectors. Midstream covers module design, optical assembly, calibration, testing, and packaging. Downstream applications mainly include cloud data centers, AI clusters, switches, servers, storage networks, and high-speed communication infrastructure.

This report studies the global 800G Data Center Transceiver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 800G Data Center 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 800G Data Center Transceiver that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 800G Data Center Transceiver total production and demand, 2021-2032, (K Units)

Global 800G Data Center Transceiver total production value, 2021-2032, (USD Million)

Global 800G Data Center Transceiver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 800G Data Center Transceiver consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 800G Data Center Transceiver domestic production, consumption, key domestic manufacturers and share

Global 800G Data Center Transceiver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 800G Data Center Transceiver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 800G Data Center Transceiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 800G Data Center 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 Coherent (Finisar), Lumentum, Cisco, Broadcom, Marvell, Intel, Mellanox (NVIDIA), Sumitomo Electric, Fujitsu Optical Components, InnoLight Technology, 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 800G Data Center Transceiver 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 800G Data Center Transceiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 800G Data Center Transceiver Market, Segmentation by Type:

QSFP-DD Transceiver

OSFP Transceiver

CPO Transceiver

Global 800G Data Center Transceiver Market, Segmentation by Transmission Distance:

Short Reach Transceiver

Medium Reach Transceiver

Long Reach Transceiver

Global 800G Data Center Transceiver Market, Segmentation by Power Consumption:

Low Power Transceiver (<12W)

Medium Power Transceiver (12-18W)

High Power Transceiver (>18W)

Global 800G Data Center Transceiver Market, Segmentation by Application:

Data Center Switching

AI Cluster Interconnection

High-performance Computing Network

Other

Companies Profiled:

Coherent (Finisar)

Lumentum

Cisco

Broadcom

Marvell

Intel

Mellanox (NVIDIA)

Sumitomo Electric

Fujitsu Optical Components

InnoLight Technology

Eoptolink Technology

Accelink Technologies

HG Genuine

TFC Communication

Cambridge Industries (CIG)

Hisense Broadband

Source Photonics

Key Questions Answered:

1. How big is the global 800G Data Center Transceiver market?
2. What is the demand of the global 800G Data Center Transceiver market?
3. What is the year over year growth of the global 800G Data Center Transceiver market?
4. What is the production and production value of the global 800G Data Center Transceiver market?
5. Who are the key producers in the global 800G Data Center Transceiver market?
6. What are the growth factors driving the market demand?

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