

# Global 800G Data Center Transceiver Market Growth 2026-2032

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## Abstracts

The global 800G Data Center Transceiver market size is predicted to grow from US\$ 8022 million in 2025 to US\$ 27421 million in 2032; it is expected to grow at a CAGR of 19.3% from 2026 to 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.

United States market for 800G Data Center Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 800G Data Center Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 800G Data Center Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 800G Data Center Transceiver players cover Coherent (Finisar), Lumentum, Cisco, Broadcom, Marvell, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "800G Data Center Transceiver Industry Forecast" looks at past sales and reviews total world 800G Data Center Transceiver sales in 2025, providing a comprehensive analysis by region and market sector of projected 800G Data Center Transceiver sales for 2026 through 2032. With 800G Data Center Transceiver sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 800G Data Center Transceiver industry.

This Insight Report provides a comprehensive analysis of the global 800G Data Center Transceiver landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 800G Data Center Transceiver portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 800G Data Center Transceiver market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 800G Data Center Transceiver and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 800G Data Center Transceiver.

This report presents a comprehensive overview, market shares, and growth opportunities of 800G Data Center Transceiver market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

QSFP-DD Transceiver

OSFP Transceiver

CPO Transceiver

Segmentation by Transmission Distance:

Short Reach Transceiver

Medium Reach Transceiver

Long Reach Transceiver

Segmentation by Power Consumption:

Low Power Transceiver (<12W)

Medium Power Transceiver (12-18W)

High Power Transceiver (>18W)

Segmentation by Application:

Data Center Switching

AI Cluster Interconnection

High-performance Computing Network

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global 800G Data Center Transceiver market?

What factors are driving 800G Data Center Transceiver market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 800G Data Center Transceiver market opportunities vary by end market size?

How does 800G Data Center Transceiver break out by Type, by Application?

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