

Global 800G Data Center Transceiver Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 800G Data Center Transceiver market size was valued at US\$ 8437 million in 2025 and is forecast to a readjusted size of US\$ 27239 million by 2032 with a CAGR of 18.2% during review period.

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 is a detailed and comprehensive analysis for global 800G Data Center

Transceiver market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 800G Data Center Transceiver market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 800G Data Center Transceiver market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 800G Data Center Transceiver market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 800G Data Center Transceiver market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 800G Data Center Transceiver

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 800G Data Center Transceiver market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

800G Data Center Transceiver market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

QSFP-DD Transceiver

OSFP Transceiver

CPO Transceiver

Market segment by Transmission Distance

Short Reach Transceiver

Medium Reach Transceiver

Long Reach Transceiver

Market segment by Power Consumption

Low Power Transceiver (<12W)

Medium Power Transceiver (12-18W)

High Power Transceiver (>18W)

Market segment by Application

Data Center Switching

AI Cluster Interconnection

High-performance Computing Network

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 800G Data Center Transceiver product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 800G Data Center Transceiver, with price, sales quantity, revenue, and global market share of 800G Data Center Transceiver from 2021 to 2026.

Chapter 3, the 800G Data Center Transceiver competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 800G Data Center Transceiver breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 800G Data Center Transceiver market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 800G Data Center Transceiver.

Chapter 14 and 15, to describe 800G Data Center Transceiver sales channel, distributors, customers, research findings and conclusion.

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