

Global Shipments of 800g Optical Modules in 2023



Article Overview

Global shipments of 800G optical modules in 2023 saw significant growth, driven by AI, hyperscale, and high-performance data center demand.

Market Overview

In 2023, the 800G optical module market experienced rapid adoption, particularly in AI clusters, hyperscale data centers, and high-density networking environments . These modules, capable of transmitting 800 Gbps per channel, offer double the bandwidth and 30–40% better power efficiency per bit compared to 400G modules, making them essential for modern high-performance computing and cloud infrastructure . The global market size for 800G optical modules in 2023 was valued at USD millions, with forecasts indicating continued growth through 2029 and 2030 . While exact unit shipment numbers are not publicly disclosed in the sources, industry reports suggest that shipments of 400G and 800G modules combined exceeded 20 million units in 2024, implying that 2023 shipments were slightly lower but already substantial .

Key Drivers of 2023 Shipments

- **AI and Machine Learning Workloads:** Large AI model training requires extremely high east-west bandwidth and low latency, driving substantial demand for 800G modules in AI servers .
- **Data Center Network Upgrades:** Transition from traditional spine-leaf to fat-tree architectures increased optical module usage, with ratios in fat-tree networks leadi...

Article Content

Apr 02, 2026

Commercial Progress and Future Trends of 800G Optical Transceivers

You can also check out the 800G ZR/ZR+ article for more information on 800G coherent modules. Commercial Progress of 800G

Nov 20, 2025

Optical Module Market Analysis and Forecast in 2026

AI computing power has driven explosive growth in the optical module market, with 800G and 1.6T technologies

Feb 22, 2026

LightCounting :: 800G Ethernet Transceivers will Eclipse Sales of

This analysis explains why Amazon and Microsoft are eager to see 400ZR modules in production now, and 800ZR in 2023/2024.

Aug 15, 2025

Global 800G Optical Module Market Research Report 2025 (Status

A significant focus of this report lies in the competitive landscape of the global 800G Optical Module market. It offers

Nov 18, 2025

Optical Components

Detailed unit shipment forecasts for each Datacom and Telecom optical module category. No market share for

Aug 04, 2025

400G/800G AI Data Center Architectures and Products | GIGALIGHT

Since there is no convergence, more optical ports are needed to ensure consistent upstream and downstream speeds, increasing

Feb 24, 2026

LightCounting :: Two sides of the market – two different stories

Sales of 800G Ethernet transceivers surpassed sales of 400G modules for the first time in Q4 2023. Shipments of 800G 2xFR4 and

May 05, 2026

LightCounting Archives

LightCounting's latest report, Vendors and Markets for Optics in China, finds that while Chinese manufacturers of optical components

Jan 29, 2026

The Evolution to 800G and Beyond

Rockley Photonics researchers estimate that a future electronic switch filled with 800G modules would draw around 1 kW of power

Oct 02, 2025

LightCounting :: Updated forecast for sales of Ethernet transceivers ...

This report analyzes the impact of growing data traffic and the changing architecture of data centers on the market forecast for

Jan 26, 2026

800G Optical Module Market's Growth Blueprint

The booming 800G optical module market is poised for explosive growth, driven by surging data center demands and

Aug 23, 2025

TV Display & OEM Market Tracker 4Q22 Analysis

This Implementation Agreement (IA) will create a comprehensive electrical/protocol/optical framework that facilitates realization into

Oct 03, 2025

The Evolution of Optical Modules: 400G → 800G → 1.6T – A Strategic ...

Why Optical Modules Matter Now Exponential Demand Growth: Shipments of 400G and 800G modules exceeded 20

Dec 22, 2025

Optical Transceiver Market Size, Share, Industry Report – 2035

With strong in-house capabilities in optical chip design and packaging, the company delivers 100G to 800G modules and coherent

Sep 20, 2025

LightCounting :: Component shortages limit growth in transceiver sales

Chinese optical module manufacturers will report Q4 results together with the full year results in April, but several of them have

Jan 10, 2026

Optical Transceiver Market Size, Share, Analysis 2030

The global Optical Transceiver Market size in terms of revenue was estimated to be worth \$13.6 billion in 2024 and is poised to reach

Jul 28, 2026

Global Perspectives on 400G and 800G Optical Transceivers Growth:

Explore the booming 400G & 800G optical transceiver market, driven by AI, data centers, and 5G. Get insights on

Jun 22, 2026

Deep Dive: Optical Module Market

Optical modules are typically defined by their bandwidth capacity, with the highest currently available being 800G

Dec 22, 2025

Global 800G Optical Module Market 2023 by Manufacturers, Regions,

Chapter 2, to profile the top manufacturers of 800G Optical Module, with price, sales, revenue and global market share of 800G

Jun 18, 2026

Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to

May 07, 2026

800G Optical Transceiver Market Analysis

Explore the forecast and market dynamics surrounding 800G optical modules in 2024, including insights into Google's

Nov 03, 2025

800GbE Optics Shipments to Grow 60% in 2025

The datacom optical component market will grow 60%+ to reach over \$16B in revenue during 2025, based primarily

Feb 13, 2026

YG PRESS NEWS

However, starting in March 2023, demand for 800G modules surged, driven by hyperscale clients like Google,

Oct 21, 2025

800G Optical Module Market Research Report 2034

The 800G optical module market was valued at \$4.8 billion in 2025 and is projected to reach \$28.6 billion by 2034, growing at a

Sep 08, 2025

LightCounting :: Sales of optical transceivers exceeded \$3 billion in ...

Sales of Ethernet transceivers increased by 100% year-over-year. Most of the growth came from strong demand for 400G and 800G

Nov 16, 2025

Presentation

Driven by new applications and growing bandwidth, the optical communication markets for Datacom and Telecom will continue to

Apr 23, 2026

LightCounting :: Looking Beyond 2023

LightCounting updates Market Forecast for 2024-2028 Demand for optical connectivity started to decline in the second half of 2022

Dec 11, 2025

Global 800G Optical Module Supply, Demand and Key Producers,

The global 800G Optical Module market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the

May 12, 2026

Global 800G Optical Module Market Research Report 2023

It covers Global market data and forecasts. It is priced starting at USD 2,900.00 for Single User License (PDF) which allows one

Jun 11, 2026

AI Deployment Accelerates 800GbE Optical Growth

Datacom revenue reached record levels, up 11% YoY, and module shipments grew rapidly in the last 2 quarters of

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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