

2023 Optical Module Factory



Overview

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025.

Key Takeaways

In 2023, China dominated global optical module manufacturing, with Shenzhen and Suzhou as major production hubs, led by companies like Innolight, Huawei, and Accelink. **Leading Manufacturers**

In 2023, Innolight ranked first globally for optical module production, followed by Coherent (Finisar) in second place. Other top Chinese manufacturers included Huawei (3rd), Accelink (5th), Hisense Broadband (6th), Eoptolink (7th), HG Genuine (8th), and Source Photonics (9th), reflecting China's strong presence in the market. Foreign manufacturers such as Cisco (Acacia) and Marvell also remained competitive, though Chinese companies accounted for over 70% of global production .

Production Hubs

China's Shenzhen and Suzhou emerged as the primary manufacturing centers for optical modules, supporting both domestic and international demand. These hubs focus on high-speed modules, including 400G optical modules, with global production capacity expected to reach 10 million units by 2024, up from 2.3 million units in 2021 .

Market Trends and Applications



The optical module industry in 2023 experienced intense competition, particularly in the 400G segment, leading to a 12% decrease in average selling prices. Key applications included:

- Data centers: 45% of global revenue, driven by AI and cloud computing .
- Telecommunication networks: 28% of revenue, supporting 5G infrastructure and broadband expansion .
- Automotive: 30% growth in demand, fueled by ADAS and V2X communication systems . Manufacturers also faced pressure to reduce carbon footprints, with 40% targeting net-zero emissions by 2030, and 60% of enterprises prioritizing secure, encrypted optical modules .

U.S. Manufacturing Expansion

In addition to Chinese dominance, Nokia began producing fiber broadband optical modules in the U.S. at Fabrinet's Santa Clara facility, starting in 2024. This initiative supports the BEAD program, aiming to expand high-speed broadband access in underserved communities, highlighting a growing trend of domestic production in North America .

Summary

The 2023 optical module landscape was characterized by Chinese leadership in production and innovation, concentrated in Shenzhen and Suzhou, with Innolight, Huawei, and Accelink as key players. Global demand was driven by data centers, telecom networks, and automotive applications, while U.S. initiatives like Nokia's domestic manufacturing reflect strategic diversification in high-tech optical module production .

Article Content

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are

This article examines how the Chinese optical module industry's "assembly powerhouse, chip desert" structure was

Optical Transceivers Global Market Report 2023: Growing Adoption of ...

The growth of this market is attributed to the factors such as the growing adoption of optical modules among data

Top 10 Global Optical Modules in 2023: Chinese Manufacturers

Recently, LightCounting, a market research institution in the optical communication industry, released the latest version

Optical Transceiver Modules

An optical module, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable device used in

LightCounting :: Looking Beyond 2023

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

World Top 8 Best Optical Transceiver Manufacturers List You Should

The global optical transceiver market was valued at \$7.18 billion in 2020, and it is expected to reach \$14.3 billion by

Chinese Optical Modules Own 7 of the Top 10 Seats. So Why Are

Seven of the global top 10 optical module suppliers in 2024 were Chinese companies (including Source Photonics,

Chinese transceiver vendors dominated the market in 2023

LightCounting releases Vendors and Markets for Optics in China report Chinese manufacturers of optical components and modules

Top 10 Optical module manufacturers in the World 2025

Are you curious about which optical module manufacturers stand out in today's competitive market? Understanding the top factories

Market Forecast Report

This report provides a detailed market demand forecast through 2028 for optical components and modules used in Ethernet, Fibre

Optical Modules Market Analysis 2026

The global Optical Modules market size was USD 9425.5 million in 2024. Data center expansion is expected to boost sales to USD

Optical Transceiver Market Size, Share, Industry Report – 2035

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is

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

Optical Module Industry Statistics 2026

The optical module industry is facing increasing pressure to reduce its carbon footprint, with 40% of manufacturers

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LightCounting :: Demand for optical connectivity in AI clusters propels ...

All other suppliers of optical components and modules (tracked by LightCounting) reported declines in revenues for 2023 and none of

Intel Divests Its Pluggable Optical Module Business

Today on its Q3 2023 earnings call, Intel announced that it divested its optical module business. That is really

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