

Ethernet Optical Modules in the Next 5 Years



Overview

After growing 32% in 2020 and setting a revenue record in 2021, sales of Ethernet optical transceivers will continue on an overall steady double-digit growth pace for the next five years, LightCounting predicts. The Optical Transceiver Market Report is Segmented by Protocol (Ethernet, Infiniband, and More), Data Rate (Less Than 10 Gbps, 10-40 Gbps, and More), Form Factor (SFP/SFP+, OSFP, and More), Fiber Type (Single-Mode, and Multi-Mode), Reach Distance (Short-Reach, Medium-Reach, Long-Reach), Application. 024, Yole Group, May 2024. Growth is calculated for plugging, private internet protocol, and direct internet in favor of wave technology. This transition requires high-bandwidth transceivers that for coherent zero dispersion shifted range (ZR/ZR+) transceivers with high data rates. Historically. We now expect 57% growth in 2024, 62% growth in 2025, and 20% growth in 2026. Any slowdown in purchases of optics by Nvidia or Cloud companies can reverse the market dynamics, piling up excess inventories across the supply chain, sharply reducing demand. By Sunil Priyadarshi

Courtesy of iStock. A major shift to zonal architectures is reducing vehicle weight and complexity, while.

Article Content

800G Optical Modules Drive Market Recovery in 2025

Despite growing attention around co-packaged optics (CPO), both LightCounting and Cignal AI report that CPO will not have a material impact on

Optics Transceiver Module Market 2025

Which key companies operate in Global Optics Transceiver Module Market? -> Key players include TDK, Hamamatsu Photonics, Cisco, HP, Juniper, Huawei, Broadcom, among others. What are the

10 100 1000 Base T Explained: A Guide to Gigabit Ethernet

Learn what 10 100 1000 Base T means, how Gigabit Ethernet works over copper, supported cable types, speeds, and common network applications.

Optical Modules Market Size, Growth Trends & Forecast

Over the next five years, the Optical Modules Market is poised for sustained growth, driven by technological evolution and expanding digital

Growth rate for Ethernet transceivers expected to

After growing 32% in 2020 and setting a revenue record in 2021, sales of Ethernet optical transceivers will continue on an overall steady double-digit

Global QSFP Optical Module Market Research Report 2025

The global market for QSFP Optical Module was valued at US\$ 6446 million in the year 2024 and is projected to reach a revised size of US\$ 10620 million by 2031, growing at a CAGR of 7.5% during

EthernetRoadmap 2025-Side1-Final-RGB

The current high speed optical market is dominated by retimed optics, but there is rapidly growing interest in linear-based solutions for optical modules which can dramatically reduce the

Optical Transceiver Market Size, Share, and Trends Analysis 2032

The global Optical Transceiver market size was estimated at USD 13.08 Billion in 2024 and is estimated to grow at a CAGR of 15.41% from 2025 to 2032.

Next-generation optical networks to sustain connectivity of the future ...

Optical communications and networks constituting the backbone of Internet infrastructure will thus have to be radically different in the next 10 years and beyond.

LightCounting Predicts High-Speed Growth in The

As shown in the graph below, the market decline in 2023 is set, but next year's Ethernet optical module sales are expected to grow by 30%. Other

NVIDIA/Mellanox MMA4Z00-NS-T Compatible Coherent

NVIDIA/Mellanox MMA4Z00-NS-T Coherent VCSEL & Broadcom DSP Compatible OSFP-800G-2xSR4 OSFP PAM4 Optical Transceiver Module, Support

EthernetRoadmap 2025-Side1-Final-RGB

The ever-increasing demand for power efficiency in data centers is driving the transition to new interconnect solutions, such as Co-Packaged Optics (CPO), On-Board Optics (OBO, and

LightCounting :: With Record High Shipments in 2020, the Optical ...

With Record High Shipments in 2020, the Optical Transceiver Industry is on Track to Ship One Billion Ethernet Transceivers by 2028, Despite a Lower Sales Forecast for the Next Five Years September

LightCounting :: Updated forecast for sales of Ethernet

This report analyzes the impact of growing data traffic and the changing architecture of data centers on the market forecast for Ethernet optical transceivers with a

Nvidia outlines plans for using light for communication

Earlier this year, Nvidia outlined that its next-generation rack-scale AI platforms will use silicon photonics interconnects with co-packaged optics (CPO)

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

Charting the Path Toward 1.6T and 3.2T Optical Module

As optical modules proliferate in data centers, the benefits of silicon photonics will be amplified, making high-speed optics more widely available in the market.

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco 10GBASE SFP+ modules give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and

LightCounting: Optical components market to hit \$20 billion by 2027 ...

While supply chain disruptions continued, the industry was able to largely overcome them, and the market for optical components and modules saw strong growth in 2020 and 2021, as

Cost trends of Ethernet switches and optical modules

Cost trends of Ethernet switches and optical modules from 2010 to 2023; the values for 2020–2023 are projections. Based on data from reports by LightCounting

The Road Ahead: 2024 Trends & Opportunities for Ethernet

In the IEEE 802.3™ standard, the electrical interface defined for optical transceiver modules is optional and not mandatory in determining claim of

Sales of Ethernet optical transceivers to double, for now

LightCounting is predicting sales of Ethernet optical transceivers will double in 2024, with continuing growth until 2027, when there will be a “soft

The Third Time Will Be The Charm For Broadcom

If Broadcom says that co-packaged optics is ready for prime time and can compete with other ways of linking switch ASICs to fiber optic cables, then it

EthernetRoadmap 2024-Side1-Feb 2-Final-RGB

SERVICE PROVIDERS have driven higher speed Ethernet solutions for decades, including router connections, EPON, client side optics for optical transport network (OTN) equipment, and wired and

First 51.2-Tbit/s co-packaged optical Ethernet switch for

Broadcom is shipping the industry's first 51.2 terabits per sec (Tbit/s) co-packaged optics (CPO) Ethernet switch to customers for scalable AI systems.

McKinsey Direct Opportunities in networking optics ...

Optical transceivers and their various components are integral to supporting capacity and performance within various configurations for data center optics (exhibit).

EthernetRoadmap 2025-Side2-Final-Press

PLUGGABLE MODULES Linear Pluggable Optics (LPO) and Linear Receive Optics (LRO)
The current high speed optical market is dominated by retimed optics, but there is rapidly growing interest in

AI Data Center Optical Transceiver Module Market 2025–2030

AI Data Center Optical Transceiver Module Market 2025–2030 Posted on Apr-03-2026
The AI data center optical transceiver market has entered a historic growth phase, driven by the exponential

Contact Us

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