

Will optical modules become obsolete



Overview

While optical drives are certainly becoming less common, it is unlikely that they will become completely obsolete in the near future. But why are they being phased out?

Let's delve into the reasons behind this decline, exploring the rise of alternative technologies, shifting consumer. MCU chips for optical modules emerge as a critical semiconductor segment as AI data center buildout drives 800G/1.6T demand, with domestic players GigaDevice and Nations Technologies racing to capture market share. Optical drives, which include CD, DVD, and Blu-ray players, were once the primary means of. The advancement of data storage technology is one of the main reasons for the gradual withdrawal of optical drives from the stage of history. The reasons behind this are related to product lifecycle management, as well as cost control and. One of the most notable shifts in recent years is the decline of optical drives.



Article Content

Why Are Used Optical Modules Returning to the Market?

Although the replaced old optical modules are not completely damaged, they can no longer meet the new demands for high speed and low latency due to long-term power-on aging.

Active Optical Module Market Research Report 2034

Active Optical Module market valued at \$10.7 billion in 2025, projected to reach \$35.6 billion by 2034 at 14.2% CAGR, driven by data center expansion and 5G deployment.

The New, Cutting Edge Tech That Could Make Fibre Optics Obsolete

The New, Cutting Edge Tech That Could Make Fibre Optics Obsolete A communication system based on “twisted light” is a viable technology that could make fiber optic lines obsolete.

Lifecycle Management Recommendations for Fiber Optic Products

The lifecycle of fiber optic products involves multiple stages, from initial design and manufacturing to deployment, maintenance, and eventual upgrades or replacement.

Beyond Chips: Unveiling the Future of the Global Silicon Photonics ...

SemiVision Research has released an updated version of the optical module supply chain analysis. The new report primarily categorizes optical modules based on a scale-up and scale

The Fading Era of Optical Drives: Why Computers No Longer Come

Will optical drives become obsolete? Yes, optical drives are likely to become obsolete in the near future. As more people turn to digital distribution and streaming services, the need for

Optical Modules Market Size, Growth Trends & Forecast

Optical Modules Market size was valued at USD 3.5 billion in 2025 & is estimated to reach USD 8.2 billion by 2034, exhibiting a CAGR of 10.3% from 2026-2034

Optical Module Evolution: From 400G to 3.2T

Optical modules, responsible for carrying the majority of intra-data center traffic, have become a foundational building block of modern digital infrastructure.

Science: Will optical fibres become obsolete? | New Scientist

These could become the building blocks for the optical switches and logic gates from which optical computers could be constructed, he says.

CPO Technology Nvidia: Death of Optical Modules and the Future of

Nvidia has started mass production of Spectrum-X CPO switches, which leads to the destruction of the traditional optical modules market. The reasons and consequences of the transition

End-of-Sale and End-of-Life Announcement for the Cisco Optical Modules ...

Cisco announces the end-of-sale and end-of-life dates for the Cisco Optical Modules CFP2-WDM. The last day to order the affected product(s) is December 29, 2021. Customers with

The Fading Light of Optical Drives: Why They're Becoming a Thing of

Yes, optical drives are likely to become obsolete in the near future. As digital storage and streaming services continue to grow in popularity, the demand for optical drives will continue to decline.

Fiber Has No Known Expiration Date According to Fiber Broadband ...

The white paper concludes that due to fiber optic cable's high levels of scalability and longevity, fiber broadband has no known expiration date.

Why Are Optical Drives Being Phased Out?

Will optical drives become obsolete? While optical drives are certainly becoming less common, it is unlikely that they will become completely obsolete in the near future.

The Fading Light of Optical Drives: Why They're Becoming a Thing of

The world of technology is constantly evolving, and one of the casualties of this evolution is the optical drive. Once a staple in every computer, optical drives are slowly but surely becoming

Why fiber internet will never become obsolete | Ziplly Fiber

One of the primary reasons fiber internet won't become obsolete is its sheer speed. Fiber-optic cables transmit data using light, which travels significantly faster than electrical signals used in

Optical Transceiver Technology Evolution Over 25 Years

How Optical Transceivers Market can reach \$5.31 billion by 2030? growing adoption of optical modules among data centers is the key!

Optical Module MCUs Become Critical as AI Data Centers Drive

MCU chips for optical modules emerge as a critical semiconductor segment as AI data center buildout drives 800G/1.6T demand, with domestic players GigaDevice and Nations

End-of-Sale and End-of-Life Announcement for the Cisco NCS 2000

Cisco announces the end-of-sale and end-of-life dates for the Cisco NCS 2000 EDRA-1-26, EDRA-1-35 and 15454 MSTP SMR-1, SMR-2, AMP-C, RAMP-C and RAMP-CE optical modules.

Semiconductor Obsolescence Guide: What It Is, Why It

This is what happens when semiconductors become obsolete. What is an Obsolete Semiconductor? Difficult to source and even harder to find in

When Optical Modules Become the "Blood Vessels" of AI Computing

As AI model parameters move toward the trillion level, optical modules are becoming the critical channel for unleashing computing power. This article dissects the real demand for high-speed

Optical Modules Future-Proof Strategies: Market Trends 2026-2034

The optical modules market is booming, projected to reach \$27.4 billion by 2033 with an 8% CAGR. This comprehensive analysis explores market size, drivers, trends, restraints, and key

The Fading Era of Optical Drives: Why Computers No Longer Come

Yes, optical drives are likely to become obsolete in the near future. As more people turn to digital distribution and streaming services, the need for optical drives will continue to decline.

Is optical really dead? : r/hometheater

Yes, optical is dead unless you are only running 2 channels. Companies never bothered making the push to bring newer audio formats to it, even though physically it could support them.

The Technological Evolution and Application Trends of Modern Optical ...

Future optical modules will continue evolving toward greater density, higher speeds, affordability, extended reach, and ease of maintenance. With technological innovations and

Why don't today's computers have optical drives? The truth ...

To sum up, the reason why computers are generally no longer equipped with optical drives is because more efficient and convenient data storage and sharing methods have replaced its role.

Current Status of Optical Module Chip Development | Weyland

Architecture evolution: CPO becomes mainstream Power optimization: low-power DSP and electro-optical co-design Conclusion Overall, optical module chips have evolved from traditional

Why Optical Drives Are Becoming Obsolete: A Shift Towards Digital

As technology continues to evolve and digital storage options become more prevalent, it is likely that optical drives will become even more obsolete, relegated to a bygone era of computing.

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