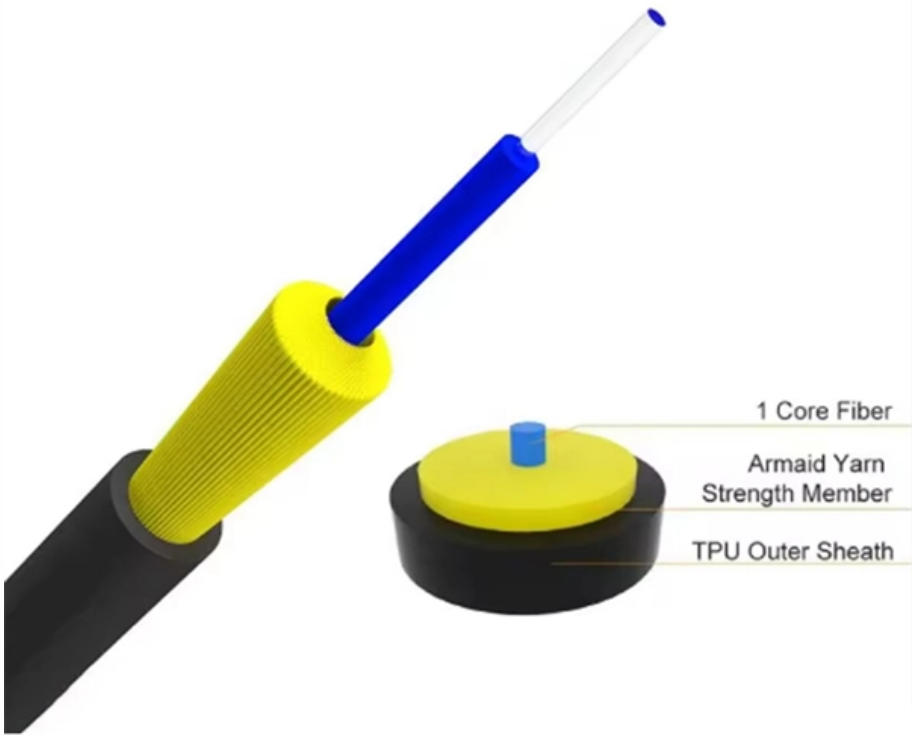
EIT Opto-Routing

The Next Big Thing After Optical Modules



Overview

In this scenario, Co-Packaged Optics (CPO) is now gaining momentum, emerging mainly as an alternative to the pluggable optical modules traditionally employed in networking switches ("scale-out" datacenter expansion). Networking unlocks computing capability for single AI chips, connecting multiple chips (working together), enabling seamless data exchange and low latency, and driving AI to the next level. Along with an AI infrastructure ramp-up and rising computing power per rack, Goldman Sachs Research analysts. From chiplets and 3D packaging to HBM bottlenecks, custom AI silicon, automotive electrification, and geopolitically reshaped supply chains, the industry is redefining. By Andreas Thoss The year 2025 is only just now upon us, but it is already facing many concerns: Politics will change (America) or face instability (Europe), and the threat of various conflicts will alter supply chains.

High-Speed Optical Module Demand Soars: AI

Discovering the intersection of AI computing and escalating market trends, the reliance on optical modules has surged. From high-scale

Latest Fiber Optic Technology 2025 for Faster Networks

Stay ahead with the latest fiber optic technology in 2025. Learn innovations driving speed, efficiency, and smarter network solutions.

How AI Revolutionizes the Optical Module Industry

AI-driven demand fuels global optical module industry growth, with Chinese firms leading innovation and market share expansion.

Future Trends in the Optical Fiber Communication Industry:

Conclusion: A Connected Future Built on Fiber By 2025, the optical fiber communication industry will solidify its role as the backbone of the digital economy. Innovations in optical cables,

The Future of 800G Optical Modules: Market Forecast

Innovations such as these are setting the stage for the next generation of optical modules capable of meeting the increasing demands of

Where co-packaged optics (CPO) technology stands in 2026

Find out CPO's 2025 scorecard and what lies ahead for this optical interconnect technology in 2026 and beyond.

Embedded optical modules to grow at a CAGR of 50

A Counterpoint Research report reveals that Near-Packaged Optics (NPO) and Co-Packaged Optics (CPO) solutions will drive in-package optical I/O technology

The Rise of Co-Packaged Optics: A Deep Dive into

CPO

A CPO optical module integrates optical and electronic components to boost data center speed, efficiency, and bandwidth while reducing power use.

Next-generation optical networks to sustain connectivity of the future

The rise and then rapid developments of various nascent technologies, encompassing notably Internet of Things (IoT), Big Data and Artificial Intelligence (AI) have been heralding a new

Powering the Next Data Race: How 800G & 1.6T Optical

In summary, the surging demand for 800G and 1.6T optical modules--driven by AI computing clusters, hyperscale data centers, and next-generation cloud

Next-Gen Optical Communication: How Advanced

With the rapid advancement of 5G, artificial intelligence, the Internet of Things (IoT), big data and cloud computing, optical communication technology

The 5 next big things in computing, chips, and

The companies and individuals behind these technologies are among the honorees in Fast Company's Next Big Things in Tech awards for 2025.

Top Trends in Fiber Optics: What to Watch in 2025

Whether it's upgrading to higher-bandwidth cables or exploring AI-driven tools, understanding what's next in fiber optics ensures you're prepared for

Optical Module Technology Roadmap , 800G to 3.2T Evolution

Explore the future of optical module technology from 800G to 1.6T, 3.2T and beyond. Comprehensive roadmap covering silicon photonics, CPO, coherent datacom, and AI-optimized

These 3 TV technologies are vying to replace OLEDs in

There's a lot to get excited for when it comes to the next stage of development for TV technology, and all but three future technologies seem the

How 400G Optical Modules Are Shaping Next-Gen

Discover key factors driving the rapid adoption of 400G optical transceivers, including AI, 5G, coherent optics, and market trends shaping next

Optical Networking: The Next Mega Trend in AI Infrastructure

Networking unlocks computing capability for single AI chips, connecting multiple chips (working together), enabling seamless data exchange and low latency, and driving AI to the next level.

The Rise of Co-Packaged Optics

In this scenario, Co-Packaged Optics (CPO) is now gaining momentum, emerging mainly as an alternative to the pluggable optical modules

The Next Big Thing: 2025's Biggest Emerging Tech Set

It is the next big thing in phone networking. Augmented Reality To take the digital experience of humans to the next level, augmented reality

Beyond Silicon -- What Is the Next Big Thing After

Beyond Silicon -- What Is the Next Big Thing After Silicon Chips? Why We Love Silicon The silicon chip's significance in the evolution of technology

Top 10 Semiconductor Trends in 2026 , StartUs Insights

We chart the generational trends in silicon photonics technology, drawing parallels from the generational definitions of CMOS technology. We

The Evolution of Optical Modules: Powering the Future

Enter optical modules, which leverage the power of light to transmit data efficiently over long distances, driving the next generation of technological

How Networks Will Develop in 2025 - R& M Blog

Find out here what R& M is observing in the world of public fiber optic networks in telecoms. One thing is certain: Need and demand continue to grow as more and more broadband is

Photonics 2025: Trends, Challenges, and Innovations

For a long time, such photonic processing units (or PICs) were the "next big thing." It looks now as if industry is turning instead to photonic interconnects. In October

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