



# Optical Module Copper Interconnect

With the advent of optical interconnects, there is a promising alternative that could reshape the landscape of electronic design. By using light to transmit data, optical interconnects offer ...

In this paper, we introduce MOSAIC, a novel optical link technology that breaks the optics versus copper trade-off, enabling long reach, low power, and high reliability simultaneously.

FireFly(TM) copper and optical systems are interchangeable using the same high-performance connector set. The industry-leading miniature footprint of FireFly(TM) allows for greater density and closer ...

MALTA, N.Y., May 4, 2026 - GlobalFoundries (Nasdaq: GFS) (GF) today announced the introduction of its SCALE(TM) optical module solution for co-packaged optics (CPO). GF's SCALE ...

Pluggable optical modules running on PAM4 DSPs have become fundamental for server-to-switch and switch-to-switch connectivity: the vast majority of connections from 5 meters to 2 ...

The SCALE CPO solution uses both coarse and dense wavelength-division multiplexing (CWDM and DWDM) for bi-directional data transmission over each optical fiber, delivering significant ...

NPO, or Near-Packaged Optics, is a highly integrated optical interconnect solution that falls between traditional pluggable optical modules and CPO.

The UCIE optical will redefine where copper is used. Copper remains a local-reach technology, optimized for in-package communication, while optics take over at package-to-package, ...

Explore AI data center interconnect trends in 2026, including CPO, optical interconnect, OCS, and the real challenges slowing large-scale deployment.

Whether your infrastructure relies on optical or copper interconnects, Semtech delivers the performance needed for AI workloads, cloud computing and enterprise networking.



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