

Silicon photonics has emerged as a key solution for next-generation optical interconnects, offering high speed, low power consumption, and seamless integration with advanced packaging.

Our low-power architecture enables practical on-chip OPAs for next-generation quantum and classical photonics. Optical amplification underpins modern photonics, from transcontinental...

Silicon photonics is in the focus of the integrated optics community for the last 10 years. Silicon photonics has the potential to become the major platform for integrated optics.

SiFotonics low power 800G silicon photonics module solution supporting transmission distance up to 2km, more than 50% power reduction from existing solutions, is ideally suited for next ...

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 ...

The SCALE CPO solution, combined with GF's silicon photonics technology, entails an advanced portfolio of fully qualified photonic devices, including 50-Gbps and 100-Gbps micro-ring ...

Silicon photonics reduces power consumption in both LRO and LPO modules by integrating optical components directly on silicon chips. Traditional optical modules require separate components for ...

SANTA CLARA, Calif., March 31, 2025 -- Marvell Technology, Inc. (NASDAQ: MRVL), a leader in data infrastructure semiconductor solutions, will demonstrate at OFC 2025 its 1.6T silicon photonics light ...

We present recent technological advances in photonic links based on resonant structures and highlight the key challenges that must be overcome at a large scale.

Marvell Technology, Inc. demonstrated its 1.6T silicon photonics light engine integrated into a linear-drive pluggable optics (LPO) module at OFC 2025. The new product is the second in the ...

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