

# New Light Protection Switch for Cloud Computing



## Overview

A global team of physicists from Ludwig-Maximilians-Universität München (LMU) and Monash University have developed an ultrafast optical switch that can turn light interactions on and off within trillionths of a second, a breakthrough that could revolutionise optical computing . A global team of physicists from Ludwig-Maximilians-Universität München (LMU) and Monash University have developed an ultrafast optical switch that can turn light interactions on and off within trillionths of a second, a breakthrough that could revolutionise optical computing . A global team of physicists from Ludwig-Maximilians-Universität München (LMU) and Monash University have developed an ultrafast optical switch that can turn light interactions on and off within trillionths of a second, a breakthrough that could revolutionise optical computing, secure communications. A global team of physicists from Ludwig-Maximilians-Universität München (LMU) and Monash University have developed an ultrafast optical switch that can turn light interactions on and off within trillionths of a second, a breakthrough that could revolutionise optical computing, secure communications. Engineers created a smaller, faster and more efficient photonic switch, which leverages principles from quantum

mechanics and could accelerate everything from streaming to training AI by supercharging data centers. Every second, terabytes of data -- the equivalent of downloading thousands upon. Enable new AI architectures with the Optical Circuit Switch (OCS) The OCS optimizes data center networks by minimizing electrical switches and optical-electrical-optical (OEO) conversions, resulting in significant cost savings, reduced power consumption, and improved latency for GPU connections. NVIDIA's co-packaged optics (CPO) switches with integrated silicon photonics are the world's most advanced networking solution for the era of agentic AI. Saliency Labs offers its SOA-based OCS Photonic Integrated Circuit in two.

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In August 2025, I wrote about Finchetto, a UK photonics startup working on an optical packet switch that keeps data entirely in the optical domain rather than bouncing between light and...



The 300x300 port Optical Circuit Switch is based field-proven and ultrareliable digital liquid-crystal platform from Coherent, which features three key advantages: low cost, low power consumption, and ...



Co-packaged optics-based networking switches with unmatched power efficiency and resiliency. NVIDIA's co-packaged optics (CPO) switches with integrated silicon photonics are the world's most ...



Péter Magyar was sworn in Saturday as Hungary's new prime minister, ushering in a new era in the country that had been under the autocratic rule of Viktor Orbán for 16 years.



Back in February, Cisco introduced a bold architectural shift to data center networking with the launch of the Cisco N9300 Series Smart Switches—a new class of switch that unifies ...



Calient's Optical Circuit Switch (OCS) - S320 is an all-optical (OOO) switch that establishes, monitors, and changes connections between single-mode optical fibers. The OCS is transparent to data speed ...



While electrical packet switches (EPS) are approaching their technical limits, optical circuit switches (OCS) offer a promising solution. Unlike traditional EPS - or even EPS with co-packaged ...



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So far, Republicans have passed maps in six states targeting 14 seats. New maps in California and Utah could flip six seats for Democrats.



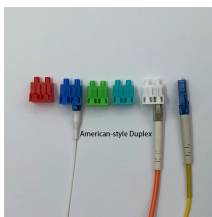
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A groundbreaking study by physicists from LMU Munich and Monash University has unveiled an ultrafast optical switch capable of controlling light ...



The Open Compute Project Foundation (OCP), the nonprofit organization bringing hyperscale innovations to all, today announced the formation of a new Optical Circuit Switching ...



The U.S. Postal Service is releasing a new series of stamps to honor Route 66's centennial. The offering includes eight stamps — one each for the states traversed by the Mother Road.



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