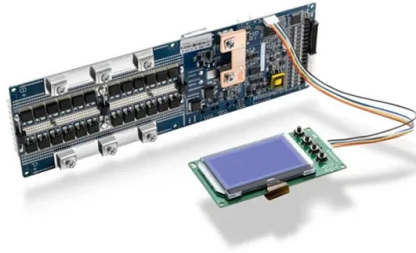


All-optical switch news



Overview

, March 18, 2025 (GLOBE NEWSWIRE) -- GTC -- NVIDIA today unveiled NVIDIA Spectrum-X™ and NVIDIA Quantum-X silicon photonics networking switches, which enable AI factories to connect millions of GPUs across sites while drastically reducing energy consumption and. SAN JOSE, Calif. Designed to unlock peak performance in AI datacenters. All-optical networking with photonic processing has long been considered the "holy grail" of the networking industry. A University of Michigan (U-M)-led research team has demonstrated an ultrafast all-optical switch by pulsing circularly polarised light, which twists like a helix, through an optical cavity lined with an ultrathin semiconductor. The study was recently published in Nature Communications. Lasers, CPO and OCS will be everywhere (indium phosphide, silicon photonics, co-packaged optics, optical circuit switch). The crowds were huge and the enthusiasm. PALO ALTO, Calif., March 12, 2026 (GLOBE NEWSWIRE) -- Broadcom Inc. (NASDAQ: AVGO), a global technology leader that designs, develops and supplies semiconductor and infrastructure software solutions, today announced the expansion of its open, scalable, and power-efficient AI infrastructure.



Article Content

Aug 02, 2025

NVIDIA Corporation

NVIDIA has achieved the fusion of electronic circuits and optical communications at massive scale. As AI factories grow to unprecedented sizes, networks must evolve to keep pace. NVIDIA photonics ...

May 11, 2026

All AI Data Center Interconnects Will Be Optical Within 5 Years

All AI Data Center Interconnects Will Be Optical Within 5 Years InP and SiPho join CMOS as critical technologies. Lasers, CPO and OCS will be everywhere (indium phosphide, silicon ...

Oct 17, 2025

All-optical switch device paves way for faster fiber-optic communication

A device called an all-optical switch could instead use light to control other light signals without the need for electrical conversion, saving both time and energy in fiber-optic...

Sep 22, 2025

Optical Circuit Switch (OCS) Guide for AI Data Center | FiberMall

The optical circuit switch (OCS) is rapidly becoming the most important new building block in hyperscale and AI data center architecture. As GPU clusters scale to tens of thousands of ...

Jun 25, 2026

Resolight Wants to Restart the All-Optical Revolution

To be more specific, the industry needs photonic processing, which can route and switch traffic in the optical domain without electronic conversion. Resolight says its photonic processing ...

Aug 23, 2025

OFC 2026 News Rodeo: AI Infrastructure Drives Record Week of ...

Major News from the OFC 2026 Show Floor Broadcom expands AI networking stack with scale-up fabrics, 400G/lane optics, and next-gen switch silicon Broadcom continued to build out its ...

Oct 07, 2025

Broadcom Showcases Industry-Leading Solutions for Scaling AI ...

These industry-leading solutions - including the 3.5D XPU, 102.4T Ethernet switch with co-packaged optics (CPO), 400G/lane optical DSP, 200G/lane Ethernet retimers and AEC, and PCIe Gen6 ...

Jan 10, 2026

Researchers develop all-optical switch

A University of Michigan (U-M)-led research team has demonstrated an ultrafast all-optical switch by pulsing circularly polarised light, which twists like a helix, through an optical cavity ...

Jul 11, 2025

Salience Labs Launches Industry's Highest Performing 32-Port All ...

OXFORD, England - March 10, 2026 - Salience Labs Limited, a leader in photonic solutions targeting connectivity for AI datacenter infrastructure, today announced the availability of the industry's highest ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://professionistidelve.it>

Email: info@professionistidelve.it

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

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