

# OCS High-Speed Optical Switch





## Overview

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OCS Optical Circuit Switch introduces an all-optical switching approach that eliminates unnecessary optical-electrical-optical conversions. As a result, data flows directly through the optical layer with lower latency, reduced energy usage, and higher determinism. Lumentum's optical circuit switches (OCS) enable the next generation of AI and cloud network architectures by replacing traditional electrical fabrics with flexible, energy-efficient. Meanwhile, bandwidth demand keeps expanding, and energy efficiency becomes a strict constraint. The OCS is insensitive to operating wavelength (supports O/S/C/LBand), transparent to optical transmission data speed and protocol independent.



## OCS High-Speed Optical Switch

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# Lumentum Aims \$2B Quarter as AI Optics, 1.6T Transceivers Surge

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Hurlston shared news of a new, multi-year, multibillion-dollar agreement with a major optical circuit switch (OCS) customer. He also stuck to guidance to deliver about \$400 million of OCS

## Lumentum (LITE) Q2 2026 Earnings Call Transcript

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DCI: Data Center Interconnect; high-capacity optical connections linking separate data center sites. OCS: Optical Circuit Switch; a networking



## **MEMS-based optical circuit switches key to Google's**

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Optical circuit switches (OCS) that use mirrors mounted on micro-electro mechanical systems (MEMS) have helped Google scale its network capacity by five petabits

## **AI drives OCS market forecast to surge to \$2.5bn**

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The market for optical circuit switching (OCS) is now forecast to reach at least \$2.5bn by 2029, according to market research firm Signal AI. This projection represents

## **Optical Circuit Switch**

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Networking Optical Circuit Switch Enable new AI architectures with the Optical Circuit Switch (OCS) The OCS optimizes data center networks by minimizing electrical



## **GLSUN OCS for Agile Optical Networks , GLSUNMALL**

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GLSUN OCS (Optical Circuit Switch) delivers a smarter way to build agile optical networks -- enabling high-capacity, low-latency, and dynamically reconfigurable fiber connectivity for next

## **Optical Circuit Switches**

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Lumentum's optical circuit switches (OCS) enable the next generation of AI and cloud network architectures by replacing traditional electrical fabrics with flexible,

## **Google's TPU-Powered 'Google Chain' Leads Market**

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These clusters connect tens of thousands of chips in three-dimensional mesh networks, enabling efficient scaling and high-volume

## **Optical Circuit Switching » Open Compute Project**

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The mission of the OCS Subproject is to standardize and advance Optical Circuit Switching as an open, scalable, and efficient solution for next-generation networking.

## **Mission Apollo: Behind Google's optical circuit switching**

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It's called Mission Apollo, and it's all about using light instead of electrons, and replacing traditional network switches with optical circuit switches



## **Google's High-Speed Interconnect Architecture to Push 800G+ Optical**

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Google's next-generation TPU, Ironwood, integrates a 3D Torus network topology with the Apollo optical circuit switch (OCS) all-optical network, marking a major step forward in AI data-center interconnect

## **Coherent Announces Optical Circuit Switch for Data Centers**

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Coherent will hold a first-of-its-kind demo at OFC 2024 of a 300x300-port optical circuit switch based on ultrareliable DLX technology, revolutionizing data center networks for AI deployments.

## **The optical networking value chain is best understood as a physics**

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The OCS layer sits above all of this as the long-duration wild card speed-agnostic, eliminating the optical-electrical-optical conversion entirely, with Lumentum's backlog already

## **Optical Circuit Switching (OCS) Solutions - InLC Technology**

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With industry-leading speed, efficiency, and flexibility, these WSS solutions enable seamless wavelength management while reducing power consumption and latency.

## **Lumentum's CEO says cloud is driving datacom growth**

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Strategic initiatives include expanding in cloud modules, optical circuit switching, and co-packaged optics, positioning Lumentum for sustained growth in high-speed



## What is OCS (Optical Circuit Switching)?

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Learn about its working principles, core components, and advantages in this comprehensive guide. Ideal for telecommunications, data centers, and cloud

## Optical Circuit Switching: New Opportunities in All

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Low insertion loss with high-bandwidth transmission: OCS supports high-speed signal transmission with minimal insertion loss, ensuring high

## Lumentum's quarterly revenue grows 65% year-on-year to \$665.5m

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Diluted earnings per share is expected to increase to \$2.15-2.35. Cloud transceivers,



OCS and CPO to drive future growth "We previously identified three primary catalysts for

## FinancialContent

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At booth #2119, Lumentum will present advancements in high-speed data interconnect products and technologies, optical circuit switching (OCS), high-power pump lasers, and next

## Lumentum to Showcase Cutting-Edge Optical Innovations for Cloud,

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## **Lumentum Holdings Inc. (LITE): Illuminating the Future**

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New Product Adoption and Revenue Contribution: Track the ramp-up and market acceptance of new high-value offerings like Optical Circuit Switches

## **Do You Really Know Optical Circuit Switching?**

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Let's discover what Optical Circuit Switching (OCS) really is, how it works, and why it matters for modern networks. Learn its benefits, use cases, and

## **Molex Accelerates AI Cluster Deployment with One-Stop Optical**

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Molex unveils a full optical stack including serviceable CPO solution, detachable



fibertochip interfaces and a High Radix Optical Circuit Switch platform to accelerate AI cluster

## Optical Circuit Switch

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The OCS optimizes data center networks by minimizing electrical switches and optical-electrical-optical (OEO) conversions, resulting in significant cost savings,

## Functional Modules Accelink , Lighting Your Dreams

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The OCS is insensitive to operating wavelength (supports O/S/C/LBand), transparent to optical transmission data speed and protocol independent. It supports fast optical path switching and flexible



## OCS Optical Circuit Switch for AI & Data Centers

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OCS Optical Circuit Switch enables low-latency, energy-efficient optical connectivity for AI clusters, data centers, and high-speed networks.

## High-Radix Optical Circuit Switch (OCS) Platform , Molex

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The High-Radix OCS Platform from Molex supports up to 544 ports, enabling flatter architectures with fewer switches. See how optical circuit switches enable faster,

### Contact Us

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For datasheets, pricing, or custom optical networking solutions, please visit:  
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