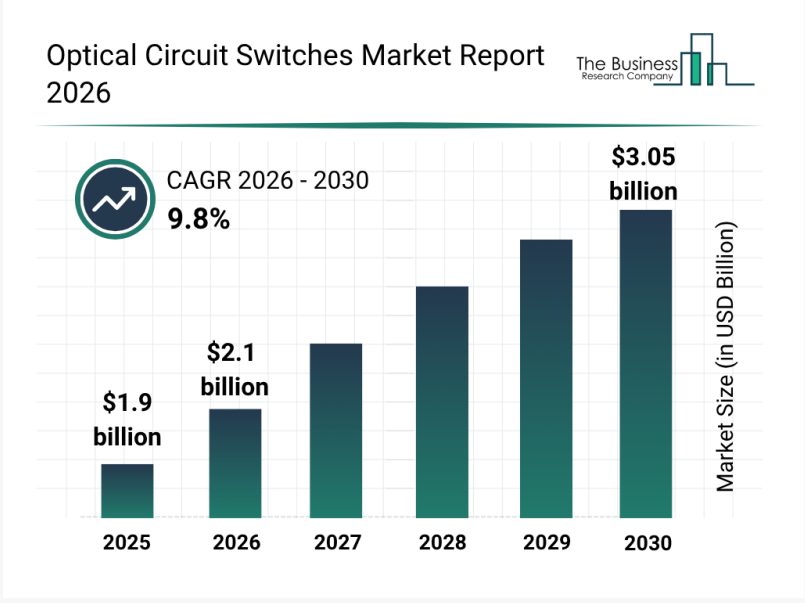
# Optical Circuit Switches Market Value Expected To Grow At 9.8% CAGR, Reaching $3.05 Billion By 2030

*The Business Research Company's Optical Circuit Switches Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035*



Optical Circuit Switches Market Report

The Business Research Company
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LONDON, GREATER LONDON, UNITED KINGDOM, September 24, 2026 /EINPresswire.com/ -- The optical circuit switches market is gaining significant attention as modern communication networks demand faster, more efficient data handling. With the surge in internet traffic and the rollout of advanced technologies like 5G, this sector is positioned for remarkable growth. Let's explore the current market size, key driving factors, major regional players, and emerging trends shaping the future of optical circuit switches.

Market Size and Growth Outlook in the Optical Circuit Switches Market

Over recent years, the optical circuit switches market has experienced rapid expansion. It is projected to increase from $1.9 billion in 2025 to $2.1 billion in 2026, marking a compound annual growth rate (CAGR) of 10.3%. This growth during the historical period is largely due to heavy reliance on electronic packet switching in backbone networks, the limited capacity of older optical transport systems, growing demand for high-capacity internet traffic, wider deployment of wavelength division multiplexing systems, and an increasing need to optimize data center interconnects. Looking ahead, the market is expected to continue its upward trajectory, reaching $3.05 billion by 2030 with a CAGR of 9.8%. The forecast period growth is driven by rapid expansion of hyperscale data centers and cloud computing workloads, rising requirements for ultra-low latency networking in AI and high-

performance computing (HPC) applications, advancements in optical network automation and software-defined networking, emphasis on energy-efficient optical infrastructure, and the adoption of photonic integrated circuits within telecom networks.

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Understanding Optical Circuit Switches and Their Role
Optical circuit switches play a crucial role in modern networking by establishing and altering end-to-end optical paths. They direct light signals between input and output ports without converting the signals into electrical form, operating purely at the optical layer of communication networks. This capability allows dynamic bandwidth allocation by physically switching light paths through an optical fabric, enabling efficient and flexible data transmission.

Key Drivers Behind the Optical Circuit Switch Market Growth
The ever-increasing volume of internet traffic stands out as a primary factor propelling demand in the optical circuit switches market. Internet traffic encompasses the data exchanged across the web between devices, servers, and networks over time. This surge is largely fueled by the rapid expansion of data-heavy applications such as video streaming, cloud computing, and AI-powered services that require constant, high-volume data flow worldwide. Optical circuit switches are well-suited to manage these demands efficiently, offering low latency and reduced power consumption, which meet the bandwidth needs of modern data centers and cloud environments. For perspective, in October 2025, the International Telecommunication Union reported that approximately 74% of the global population, around 6 billion people, will be connected to the internet—a rise from 71% or 5.8 billion users the previous year. The annual growth rate of internet adoption also accelerated, reaching 3.3%, up from 2.9%, underscoring the growing data traffic that supports the optical circuit switches market expansion.

View the full optical circuit switches market report:
https://www.thebusinessresearchcompany.com/report/optical-circuit-switches-market-report?utm_source=EINPresswire&utm_medium=paid&utm_campaign=Sep_PR

Impact of 5G Infrastructure Growth on Optical Circuit Switch Demand
The rapid development of 5G infrastructure is another significant market driver. 5G networks consist of a complex assembly of hardware, software, and communication technologies—including small cells, base stations, and fiber backhaul—that deliver ultra-high-speed and low-latency wireless connectivity. The expansion of 5G is fueled by the increasing need to support technologies such as the Internet of Things (IoT), autonomous vehicles, and real-time cloud applications, all of which demand much greater network capacity than previous generations. As 5G networks generate vast and dynamic data traffic, they create a strong requirement for scalable, energy-efficient optical transport solutions capable of managing

bandwidth between distributed edge and core data centers. Supporting this, Ericsson reported in November 2025 that the proportion of mobile data carried over 5G rose from 34% in 2024 to 43% in 2025, with expectations to grow further to 83% by 2031. This trend clearly highlights the role of 5G infrastructure expansion in accelerating optical circuit switches market growth.

Which Region Will Lead the Optical Circuit Switches Market by 2026?
In 2025, North America held the largest share of the optical circuit switches market, benefiting from its advanced telecommunications networks and early adoption of cutting-edge technologies. Meanwhile, Asia-Pacific is predicted to be the fastest-growing region over the next few years, driven by rapid digitalization, increasing data traffic, and widespread 5G network deployment. The market analysis includes regions such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, offering a comprehensive perspective on how global demand and growth patterns are evolving in this sector.

Our latest 2026 market reports provide expanded strategic and visual intelligence with market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, together with updated graphics and tables.

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