Computing Networks and Optical Modules

In this paper, we present a review of optical switching techniques capable of meeting the requirements of the next generation of large-scale data center networks.

Optical modules enable high-speed, low-latency links across 5G fronthaul, midhaul, and backhaul. Learn how transceiver types, standards, and ...

In addition to hosting a dedicated photonics market briefing, Scaling Datacom Optical Technologies for Next Generation Networks, and presenting the latest results, our team held ...

Bio: Xiang Liu is Chief Scientist of Optical Standards at Huawei Technologies. He has been actively contributing to international standards in ITU-T SG15, IEEE 802.3, OIF, ETSI ISG-F5G, and BBF.

Optical modules enable high-speed, low-latency links across 5G fronthaul, midhaul, and backhaul. Learn how transceiver types, standards, and deployment needs shape modern telecom ...

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 solution, or Silicon ...

We review recent advances in optical modules and networks for AI-era data centers (DCs), covering intra-DC optical pluggable transceivers, DC interconnections, optical cross-connect based flexible ...

Discover key factors driving the rapid adoption of 400G optical transceivers, including AI, 5G, coherent optics, and market trends shaping next-gen network infrastructure.

This section is dedicated to illustrate the efficient use and consequently network-wide impact of introducing two optical computing operations, namely, optical aggregation/de-aggregation ...

The market for high-speed optical modules is exploding, driven by the insatiable appetite of AI, cloud computing, and 5G networks. Analysts predict that by 2025, global demand for 800G ...

As AI and HPC data centers evolve towards ultra-large scale and high computing density, optical interconnect technology is gradually moving from pluggable modules to packaged ...

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