

## Preview

After explosive growth in 2024, 800G Datacom optics for AI and general computing applications will be the fastest growing segment of the market in 2025, according to the latest Optical Components Report from research firm Cignal AI. 6T optics will enter volume production in select Nvidia and. According to the latest June 2025 Quarterly Market Update by renowned research firm LightCounting, the global optical transceiver market is set to rebound in Q2 2025 with a projected 10% quarter-over-quarter growth. The key growth driver is the rising demand for 800G Ethernet optical modules. The insatiable "computing hunger" of Artificial Intelligence is creating an unprecedented "highlight moment" for the global optical communication industry. What was once a telecom-focused market is now evolving into a critical foundation for global computing systems. As hyperscale AI data centers continue to scale.

More notably, shipments of 800G optical transceivers are expected to achieve a year-on-year increase of 100% in 2025. Meanwhile,

Analysts expect AI-driven optical connectivity (including 400G/800G modules) to grow at >22% CAGR toward 2030, largely due to

Discover everything about 800G optical modules--standards, packaging, types & applications. Learn how they power

When hyperscale data center operators start deploying a new generation of client optics, they immediately require massive volumes

The demand for high-speed datacom optical modules has surged, with shipments of 400G and 800G units exceeding

As the demand for faster data transmission continues to surge, 800G transceiver has gained significant attention due

Explore the cutting-edge world of 800G transceivers and the latest standards shaping high-speed communications.

Those five companies will spend more than \$1.8 billion on 800G Ethernet modules in 2026, the market research firm

June 12, 2025 LightCounting expects a 10% sequential growth in sales of optical transceivers in the current

quarter, after a flat Q1.

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and

Additionally, the integration of 800G modules into 5G backhaul, satellite communication, and space-based optical

Whether you're building a new data center, upgrading a telecom backbone, or supporting high-density AI workloads, Optech's 800G

Marvell Technology, Inc., Lumentum Holdings Inc., and Coherent Corp. have announced the successful

800G optical modules are transforming data center transport, enabling networks to reach heights that previous

800G modules as a critical next-generation alternative. This paper presents a comprehensive review of 800G optical

The datacom optical component market will grow 60%+ to reach over US\$16 billion in revenue during 2025, based

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