Optical Modules for Data Centers

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and upgrade strategies for future-ready data centers.

Explore optical communication industry trends in 2026, driven by AI infrastructure, 800G and 1.6T optical modules, silicon photonics, and next-generation data center connectivity solutions.

The Arista XPO (eXtra-dense Pluggable Optics) module is a purpose-built solution designed from the ground up to address the unique challenges of hyperscale AI data centers.

Data centers, the beating hearts of this digital revolution, are tasked with processing and moving massive volumes of data at unprecedented speeds. ...

While analyst firms such as LightCounting predict that optical modules will continue to constitute the majority of optical links inside data centers through the decade, 1 CPO will likely ...

GlobalFoundries accelerates adoption of co-packaged optics for advanced AI data centers with SCALE optical module solution May 4, 2026

Pluggable optical transceiver modules are essential components in data communication systems, widely used as optical interconnects at the termination of fiber optic links. These modules perform the ...

When hyperscale data center operators start deploying a new generation of client optics, they immediately require massive volumes of optical modules to build out switching fabric and router ...

By 2025, 800G optical modules are no longer future technology--they represent the default choice for new buildouts in AI data centers and hyperscale cloud networks.5 Explosive AI ...

Optical transceivers and their various components are integral to supporting capacity and performance within various configurations for data center optics (exhibit).

Data centers, the beating hearts of this digital revolution, are tasked with processing and moving massive volumes of data at unprecedented speeds. At the core of this infrastructure lie ...

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