Adolite
Ultimate Optical Interconnect Solutions

Adolite unveils solutions designed to speed data providers' growth

Next-generation optical communications products will help unblock supply chain bottleneck to meet industry's bandwidth demands

SANTA CLARA, Calif., March 13, 2018—Adolite Inc., a global optical communications company, today at the Optical Fiber Communication Conference and Exhibition (OFC) 2018, demonstrated new technology to help providers keep up with accelerating data growth.

Data centers, cloud computing providers, and 5G mobile operators can unblock their supply chains to support data expansion and speed market innovation and can deliver more data to their customers—faster—with Adolite's major breakthroughs in materials science and precision manufacturing. The company's patent-pending process replaces embedded fiber with polymer to deliver sophisticated, high-performance optical transceivers, active optical cable (AOC) and on-board optics (OBO)—at 100G (gigabits per second), 400G and beyond.

"Capacity and growth are being held back because manufacturers are simply unable to produce enough state-of-the-art optical-interconnect products," said Abraham Jou, CEO, Adolite. "Adolite enables greater access to bandwidth-intensive, rich content with our breakthrough technology that ultimately allows cloud computing and data centers to cost-effectively innovate and differentiate."

According to LightCounting, the global market for Ethernet optics at 25 Gb/s and above is projected to grow by 18 percent annually, exceeding $5 billion by 2022. Optical interconnect manufacturers have been challenged to keep up with demand, creating a supply chain bottleneck.

Existing transceiver designs are complex, requiring time-consuming and error-prone production processes owing to multiple lenses, fiber-alignment challenges and complicated assembly. In contrast, Adolite embeds optical waveguides and electrical circuits into a single layer of polymer flexible printed circuit board (FPC) and directly integrate lasers and photo diodes onto the FPC using flip-chip bonding techniques. This simplified physical structure is more flexible and routable at the board level, and can help streamline the production process.

Joins Consortium for On-Board Optics

Adolite recently joined the Consortium for On-Board Optics (COBO), where the company collaborates with high-performance switch manufacturers, operators, sub-system builders, component makers, system integrators and others in the optics ecosystem to lend leadership and expertise to advance bandwidth growth beyond 400G. COBO is developing specifications for interchangeable optical modules that can be mounted on printed circuit boards (PCBs). Changing the physical infrastructure by enabling optical modules to sit above the current framework can help overcome today's limitations.

Learn more about how Adolite is speeding the pace in the data-driven race in its white paper and video. To keep up to date with Adolite and connect with its social networks, follow its Twitter, LinkedIn and Facebook pages.

About Adolite Inc.

Adolite develops optical communications products to help providers keep up with accelerating data growth to meet market demands. The company's optical interconnect solutions for data centers, cloud computing providers and 5G mobile operators include the world's most sophisticated, high-performance transceivers and on-board optics—at 100G, 400G and beyond—to help unblock the supply chain bottleneck, support data center expansion and speed market innovation.

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