



Credo and Wistron to Demonstrate 800G Linear Receive Optics with 51.2Tbs Switch Platform at OFC 2024

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Data Center Operators Reap the Benefits of High Performance, Energy Efficient Solutions

SAN JOSE, Calif.--(BUSINESS WIRE)--Mar. 26, 2024-- [Credo Technology Group Holding Ltd](https://www.businesswire.com/news/home/20240326485529/en/) (NASDAQ: CRDO) an innovator in providing secure, high-speed connectivity solutions that deliver improved energy efficiency as data rates and corresponding bandwidth requirements increase throughout the data infrastructure market, today announced an upcoming joint demonstration of Linear Receive Optics (LRO), using the Credo Dove 850 DSP, with the 51.2Tb/s Wistron DS-6183-64O 64-port 800GbE switch. The joint demonstration at OFC 2024 in San Diego provides a preview for a new generation of power and cost optimized data center infrastructure designed to handle the ever increasing workloads demanded in AI networks with a lower carbon footprint.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20240326485529/en/>



In an LRO transceiver, or Active Optical Cable (AOC), only the transmit path from the electrical input to the optical line side output includes a DSP for signal retiming and equalization. This unlocks dramatic power savings without sacrificing interoperability or standards compliance. All three 800G OSFP LRO modules provided by Credo partners for this demonstration seamlessly "plug and play" with the 51.2T Wistron switch, a tremendous benefit in mass deployment.

Credo invites OFC conference attendees to visit the public display during expo hours in booth 3601 in the San Diego convention center from March 26-28th.

"Linear Receive Optics are pushing the industry forward. Credo is streamlining implementation for module vendors while addressing the need for improved energy efficiency across the data center," said Anderson Chiu, General Manager of

Credo and Wistron to Demonstrate 800G Linear Receive Optics with 51.2Tbs Switch Platform at OFC 2024 (Graphic: Business Wire)

Networking Development, Enterprise and Networking Business Group of Wistron. "The combination of Credo LRO DSPs and our world class switch technology allows our mutual customers to upgrade AI/ML clusters to higher bandwidth connectivity, with less latency, all while saving cost and reducing power and cooling requirements."

"We are honored to work with Wistron on the first public demonstration of LRO technology in their latest 51.2T switch platform," said Chris Collins, Vice President of Optical Marketing at Credo. "Wistron is recognized as a leader in advanced networking and their commitment to supporting LRO allows their customers to enjoy a lower total cost of ownership without sacrificing network performance or throughput."

About the Credo Dove 850

The Dove 850 is a unidirectional 8 x 112 Gb/s DSP purpose built for the LRO architecture. The Dove 850 DSP aims to address the inherent weakness of a Linear Pluggable Optics (LPO) implementation by facilitating IEEE compliant optical transmit signaling and easing the deployment burden on system operators by eliminating manual, per port tuning. The result is lower bit error rates, enhanced sensitivity, reduced performance variation, and improved resilience to different switch ASICs, PCB traces, optical components, and environmental conditions. Dove 850 allows transceiver vendors to optimize module cost by employing a variety of optics, including VCSELs, silicon photonics, EML or thin-film lithium niobate as dictated by the application requirements.

About the Wistron DS-6183-64O

The DS-6183-64O is a high-performance and high-density switch specially designed for AI/ML applications. It perfectly matches the connectivity requirements for next-generation data centers, including hyperscale core, aggregation layer, and spine-leaf architecture. DS-6183-64O is a compact 2RU 64 port 800G OSFP Ethernet Switch, built with Broadcom Tomahawk 5 chip, providing high bandwidth, high throughput, and reliable solutions. Support up to 102.4Tbps of switching I/O bandwidth and non-blocking switching fabric, delivering wire-speed L2 and L3 packet forwarding capabilities on all ports for Low-latency data transmission and support for state-of-the-art instrumentation feature. With the advanced system integration technique, all OSFP ports on DS-6183-64O support up to 800GbE and can be configured as 2 x 400GbE and also support 18W output. For long-range DCI application, 8 OSFP ports of DS-6183-64O could even support 25W in each port. DS-6183-64O is loaded with ONIE (Open Network Install

Environment), which supports the installation of compatible NOS (Network Operating System) software, like SONiC.

About Credo

Our mission is to deliver high-speed solutions to break bandwidth barriers on every wired connection in the data infrastructure market. Credo is an innovator in providing secure, high-speed connectivity solutions that deliver improved power efficiency as data rates and corresponding bandwidth requirements increase exponentially throughout the data infrastructure market. Our innovations ease system bandwidth bottlenecks while simultaneously improving on power, security, and reliability. Our connectivity solutions are optimized for optical and electrical Ethernet applications, including the emerging 100G (or Gigabits per second), 200G, 400G,800G and the emerging 1.6T (or Terabits per second) port markets. Credo products are based on our proprietary Serializer/Deserializer (SerDes) and Digital Signal Processor (DSP) technologies. Our product families include Integrated Circuits (ICs) for the optical and line card markets, Active Electrical Cables (AECs) and SerDes Chiplets. Our intellectual property (IP) solutions consist primarily of SerDes IP licensing.

For more information, please visit <https://www.credosemi.com>. Follow Credo on [LinkedIn](#).



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