



Credo Introduces 800Gbps and 400Gbps Optical Digital Signal Processors with Integrated Drivers

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Industry-Leading Performance and Low Power Combined with Full Set of Features Ideally Suited for Next Generation Hyperscale Data Centers and AI Applications

SAN JOSE, Calif.--(BUSINESS WIRE)--Aug. 29, 2022-- Credo Technology Group Holding Ltd (NASDAQ: CRDO) today introduced its new Dove 800 Digital Signal Processor family of products. The products are targeted at rapidly growing Hyperscale Data Center and AI applications and enable customers to meet increasingly stringent power and bandwidth requirements.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20220829005269/en/>



"Continuous increase in data traffic, driven by applications such as AI and AR/VR, is fueling the demand for optical modules with increased throughput and switch ASICs with 100Gbps serial interface," said Vlad Kozlov from LightCounting Market Research. "In fact, we have increased our forecast for 800G transceivers reflecting higher level of investments planned by Meta. Credo's high-performance 400Gbps and 800Gbps DSPs are critical to enabling this next generation infrastructure, while providing the power and price required for rapid market deployment and volume ramp up."

"Credo is delivering a comprehensive solution with the Dove 800 family – its low-power, high-performance design, combined with integrated drivers and bias-T components, will enable customers to simplify PCB design, improve yields and reduce module costs," said Scott Feller, Vice President of Marketing at Credo. "The Dove 800 family supports low-cost, quick implementation required to support the hyperscale and AI applications driving the demand for high-density switching systems."

The Dove 800 family includes 800Gbps Dove 800/801/802 for QSFP and QSFP-DD800, and 400Gbps Dove 410/401/401 for QSFP112 optical transceivers. These new PAM4 DSPs

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(Photo: Business Wire)

come with integrated EML, TFLN and silicon photonics modulator drivers and offer industry leading performance and low-power dissipation.

Dove 800 Family Features and Technical Benefits

- 100G PAM4 on both the electrical host and optical line side.
- Powerful DSPs on optical line side and electrical host side deliver industry leading sensitivity and BER performance, allowing margin for optical alignment and crosstalk.
- Line side receivers include non-linear cancellation and reflection cancellation to improve yields, while reducing module cost.
- High-performance transmitters come with multi-tap FIR filters and non-linear cancellation, allowing precision optimization at both the module electrical connector and optical interface.
- Host side interface supports up to 30dB insertion loss channel, connecting seamlessly with different length switch interfaces without the need for customized per-channel settings.
- The family comes with EML, TFLN and Silicon Photonics drivers and bias-T but allows use with external laser or modulator driver support to provide customers with maximum flexibility.
- Independent phase locked loops per channel support flexible breakout configurations including 2x400G, 4x200G and

8x100G.

- Full suite of test features and loopbacks simplifies lab bring up and production testing to reduce time-to-market.
- On-chip crossbar simplifies module layout design.
- Low-power dissipation enables higher rack utilization and lower thermal cooling requirements.

All Credo product offerings are supported by evaluation boards, simulation models, characterization reports, reliability reports, design libraries and a complete set of supporting documentations. Customers interested in samples of the Dove 800 family should contact sales@credosemi.com.

To learn more about the Credo Optical products, go [here](#).

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 and cost 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 and 800G port markets. Our products are based on our proprietary Serializer/Deserializer (SerDes) and Digital Signal Processor (DSP) technologies. Our product families include integrated circuits (ICs), 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](#) and [Twitter](#).

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Media Contact:

Diane Vanasse
diane.vanasse@credosemi.com

Investor Contact:

Dan O'Neil
dan.oneil@credosemi.com

Source: Credo Technology Group Holding Ltd