

# DML Customs Broker for Low-Power Optical Modules for Data Centers



## Overview

Built on Lumentum's high-volume InP manufacturing platform and GR-468 qualified for long-term reliability, the DML 25G TDM enables simple, compact, and low-power transmitters for 25G SFP28 and 50G SFP56 modules—ideal for access, 5G fronthaul, and other high-density optical. Built on Lumentum's high-volume InP manufacturing platform and GR-468 qualified for long-term reliability, the DML 25G TDM enables simple, compact, and low-power transmitters for 25G SFP28 and 50G SFP56 modules—ideal for access, 5G fronthaul, and other high-density optical. Lumentum manufactures indium phosphide (InP) directly-modulated lasers (DMLs) in our internal wafer foundry. These DMLs are based on the distributed feedback (DFB) diode lasers. With the DML, the laser. Optical modules (SFP, SFP+, QSFP) are small, but when multiplied by thousands of ports they become a meaningful line item in both energy and heat budgets. Choosing low-power optical modules today is one of the simplest, lowest-risk ways to reduce OPEX and improve sustainability without changing. The market growth is driven by increasing demand for high-bandwidth communication networks, expansion of 5G infrastructure, and rising data center deployments globally. However, challenges such as signal distortion at higher modulation frequencies may limit adoption in some applications. The new 200G QSFP56 DR4/FR4 module utilizes PAM4 modulation technology. SAN JOSE, Calif. –Credo Technology Group Holding Ltd (NASDAQ: CRDO) today introduced two high-performance, low-power optical DSPs ICs; the single channel Seagull 52 and the quad channel Seagull 202. Build high-performance and power-efficient optical modules for wireless, data center and communication applications with our optical networking ICs. Our products simplify designs by integrating transceivers, transimpedance.

## Article Content

Credo Targets Hyperscale Data Centers and 5G Networks with New Optical ...

Credo designed these new Seagull DSPs to meet the requirements of the most demanding hyperscale and 5G applications by delivering higher bandwidths and low-latency ...

Modulated Lasers (EMLs, DMLs) | Lumentum

Lumentum modulated lasers deliver high-bandwidth, energy-efficient optical links for AI and cloud data centers using advanced InP EML and DML technology.

Optical networking ICs | TI

Build high-performance and power-efficient optical modules for wireless, data center and communication applications with our optical networking ICs. Our products simplify designs by integrating ...

DML 25G TDM Laser

Built on Lumentum's high-volume InP manufacturing platform and GR-468 qualified for long-term reliability, the DML 25G TDM enables simple, compact, and low-power transmitters for 25G SFP28 ...

Directly Modulated Semiconductor Lasers Market 2025

As network operators deploy thousands of micro data centers at network edges, demand grows for compact, power-efficient optical components. DMLs are particularly well-suited for these applications ...

GIGALIGHT Redefines 200G Data Centers With Introducing New ...

The advantages of low power consumption and effective technical solutions make them particularly appealing for underdeveloped countries or enterprise-level data centers. As the open ...

DML 25G CWDM Laser

Lumentum's DML 25G CWDM laser provides efficient, compact optical performance for short- and medium-reach single-mode connectivity in data center, access, and aggregation networks.

Low-Power Optical Modules Supplier Guide: to Lower Data center Costs

Modern data centers spend a lot on power — not just for servers and cooling but for every single network port. Optical modules (SFP, SFP+, QSFP) are small, but when multiplied by thousands of ...

Credo Targets Hyperscale Data Centers and 5G ...

Credo designed these new Seagull DSPs to meet the requirements of the most demanding hyperscale and 5G applications by delivering higher ...

### DML 25G LAN-WDM Laser

Lumentum's DML 25G LAN-WDM laser delivers stable, narrow-wavelength optical performance for 100G long-reach applications in data center and access networks.

## Contact Us

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