

Article Overview

CIF prices for DML-based optical receivers vary widely depending on wavelength, data rate, and supplier, typically ranging from a few hundred to over a thousand USD per module.

Overview of DML Optical Receivers

Directly Modulated Lasers (DMLs) are commonly used in short-reach optical links due to their low cost, small form factor, and low power consumption. Optical receivers paired with DMLs are designed to detect the modulated optical signal and convert it into electrical signals for further processing. Key specifications affecting price include:

- o Wavelength: Common options are 1270-1550 nm, with 1310 nm and 1550 nm widely used in telecom and data center applications.
- o Data Rate: Modules support rates from 10G to 25G or higher, with higher-speed modules generally costing more.
- o Form Factor: QSFP28, SFP28, and OSFP modules are standard; smaller or specialized modules may have higher unit costs.
- o Modulation Bandwidth: DMLs typically operate up to 4 GHz for low-speed modules, while high-speed modules require advanced driver electronics.

Typical Pricing

While exact CIF prices depend on supplier, order volume, and shipping terms, general ranges are:

- o Low-speed DML modules (10G, 1270-1550 nm): \$200-\$500 per unit.
- o High-speed DML modules (25G, 1310-1550 nm, QSFP28/OSFP): \$800-\$1,200 per unit.
- o Custom or high-power modules: Prices can exceed \$1,500 depending on temperature range, polarization-maintaining fiber, or integrated TEC stabilization.

Suppliers and References

- o Optilab: Offers DML modules with polarization-maintaining fiber output, TEC stabilization, and remote control via RS485. Pricing is available upon request.
- o Lumentum: Manufactures InP DMLs with multiple wavelengths and data rates, including bare die and packaged modules for 10G and 25G applications.
- o Datasheet Archive: Provides technical datasheets for various OSFP and DML modules, useful for comparing specifications before requesting quotes.

Recommendation

To obtain an accurate CIF price, it is best to contact suppliers directly with your required specifications (wavelength, data rate, form factor, and quantity). This ensures the quote includes shipping, insurance, and any applicable import duties. For bulk orders, suppliers may offer volume discounts or customized modules tailored to your system requirements.

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Optical Module Background and Basic Principle In the introduction of product parameters of optical modules, we often

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Learn about key optical module parameters, focusing on DML (Directly Modulation Laser) and EML (External

Impairment compensation in DML-based systems [1, 9] has however relied mainly on separate transmitter-side pre

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EML (External Cavity Laser) and DML (Distributed Feedback Laser) lasers play crucial roles in optical modules used

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EML and DML are two essential laser technologies used in 100G/200G/400G/800G transceivers. The key differences

We fabricated the first compact 100-gigabit Ethernet (100GbE) transmitter optical sub-assembly (TOSA)

using a directly modulated

What are Optical Modules? Optical modules are devices used in fiber optic communications to transmit and receive

In summary, DML and EML, as two important modulation technologies for optical modules, play an important role in

Understand CIF in shipping. Learn seller/buyer responsibilities, risks, and benefits. Optimize trade terms. Get the right

The use of directly modulated lasers (DMLs) is attractive in low-power, cost-constrained short-reach optical links. However, their

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