

Low-power optical module 800G CIF price



Article Overview

Low-power 800G LPO modules cost between \$700–\$900 per unit and offer significant operational savings due to reduced power consumption and cooling requirements.

Unit Cost Overview

Low-power 800G Linear Pluggable Optics (LPO) modules, such as FS's 800G LPO DR8 and Adtran's LiteWave800™, are priced \$700–\$900 per unit for volume orders (1000+ units), which is lower than traditional DSP-based 800G modules that typically range from \$1,100–\$1,400 for OSFP-DR8 or \$1,000–\$1,300 for QSFP-DD-DR8. Factors affecting pricing include vendor tier, volume discounts, technology maturity, and any customizations like extended temperature ranges or special testing.

Power Efficiency and Operational Savings

Low-power 800G LPO modules are designed to eliminate DSP chips, drastically reducing power consumption. For example:

- FS 800G LPO DR8 consumes 8.5W, roughly 50% lower than DSP-based 800G modules.
- Adtran LiteWave800™ consumes only 0.8W, achieving 1pJ/bit energy efficiency, far below first-generation LPOs and mainstream DSP optics. This reduction in power translates to lower thermal loads, reducing the need for switch and server cooling, which can significantly decrease operational expenses (OPEX) in high-density AI/HPC data centers. Lower power also mitigates risks of thermal throttling and FEC-induced latency spikes that can occur in DSP-based 800G deployments.

Total Cost of Ownership (TCO) Considerations

Article Content

800G Transceivers — Transceiver USA

800G Transceivers Transceiver USA's optical OSFP modules are used in enterprise and datacenter networks. View price, stock and

Understanding 800G Optical Modules: Types, Applications, and

Understanding 800G Optical Modules: Types, Applications, and Solutions by Optech
As the demand for faster data transmission

800G OSFP Digital Coherent Optics Transceiver, OIF 800ZR

High transmitter optical output power enable the transceivers to be compatible with deployed and emerging ROADMs line systems.

800/400/200/100/40G Fiber Optical Modules

FS offers a growing portfolio of 800/400/200/100/40G optical transceiver modules and cables. The super-high density and backwards

800G LPO Module | FS Inc. | Aug 2025 | Photonics Spectra

The FS 800G LPO DR8 module operates with a maximum power consumption of just 8.5 W, which is approximately 50% lower than

800G OSFP SR8 Linear Pluggable Optics (LPO) Transceiver

800G OSFP SR8 Linear Pluggable Optics (LPO) Transceiver" Linear drivers with gain and equalization control of VCSELs at

Norwegian CIF price for 800G active optical devices

This document provides a list of National Stock Numbers (NSNs), item descriptions, sizes, prices and 10% deposit amounts for

FS Launches 800G LPO Module: A Power Efficiency and Latency

NEW CASTLE, Del., August 23, 2025--FS introduces an 800G LPO optical module, powering AI and HPC data centers with ultra-low

800G Client Optics in the Data Center

The next key development is 800G, and the industry is already gearing up to deploy this next generation of client optics in hyperscale

OSFP 800G

The 800G OSFP modules are state-of-the-art in broadband communications. With a remarkable data transmission capacity of 800

800G OSFP800 DR4 LPO | EU-Tested Low-Power 800G Optics

The STC-40026 from Swedish Telecom Opto's LPO Series is an 800 Gb/s OSFP800 2xDR4 module designed for high-density and

200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center

800GBASE OSFP/QSFP-DD800 Optics Transceivers Module | FiberMall

800G QSFP-DD800/OSFP optical module includes two architecture solutions, 2x400G and 8X100G. Its optical interfaces include

800G OSFP-Product Solutions-INNOLIGHT

800G OSFP optical module includes two architecture solutions, 4x100Gx2 and 8X100G. In addition to the traditional EML design, it

Everything You Need to Know About 800G/1.6T Optical Transceiver

Introduction to 800G/1.6T Pluggable Optics Modules The Evolution of Optical Transceivers: From 100G to 1.6T Driven by the

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