

Price list for upgraded linear drive pluggable optics for data center interconnects



Article Overview

Upgraded Linear Drive Pluggable (LPO) optics for data center interconnects are valued in the range of several thousand dollars per module, with market trends showing growth from USD 2.33 billion in 2024 to over USD 5.4 billion by 2032, reflecting rising adoption of 400G, 800G, and 1.6T architectures.

Market Pricing and Trends

The Linear Drive Pluggable (LPO) optics market was valued at approximately USD 2.33 billion in 2024 and is projected to grow at a CAGR of 11.1%, reaching USD 5.42 billion by 2032 due to increasing demand for high-speed, low-latency, and energy-efficient interconnects in hyperscale data centers, cloud service providers, and telecom networks . Average selling prices (ASPs) vary by data rate and module type, with higher-speed modules (400G, 800G, 1.6T) commanding premium pricing due to advanced linear drive technology and reduced DSP layers .

Factors Affecting Pricing

- **Data Rate and Bandwidth:** Modules supporting 400G, 800G, and 1.6T are more expensive than 100G modules due to higher component complexity and tighter signal integrity requirements .
- **Power Efficiency:** LPO modules reduce power consumption by up to 40% compared to traditional DSP-based optics, which can influence cost-benefit calculations for lar...

Article Content

Linear Pluggable Optics – Streamlining Data Center Efficiency

Syntec Optics caters to the growing data center market with linear pluggable optics and co-packaged optics

Linear Pluggable Optics – The low-power optical interconnects for AI ...

Linear Pluggable Optics – The low-power optical interconnects for AI and Hyperscaled

Linear Drive optics offers benefits, but challenges will limit ...

Linear Drive optics can offer data center providers various benefits, namely reducing power by eliminating DSP functions from optics.

Linear Pluggable Optics Save Energy In Data Centers

Linear pluggable optics (LPO) is garnering more attention as a way to quickly and efficiently move data in and out of

LPO MSA releases Linear Pluggable Optical Modules

Linear Drive Pluggable Optics refers to the use of direct-drive linear technology in fiber

Data Center Linear-drive Pluggable Optics (LPO) Market Size & Share

The Data Center Linear-drive Pluggable Optics (LPO) market is experiencing rapid growth, driven by the demand for high-speed,

LightCounting :: December 2025 AOCs, DACs, Linear Drive

Another technology discussed in the report is Linear Drive Pluggable (LPO) transceivers and AOCs. The report includes historical

Global Linear-Drive Pluggable Optics Modules (LPO) Market

This report will assist Linear-Drive Pluggable Optics Modules (LPO) manufacturers, new entrants, and companies across the industry

Semtech's DirectEdge™ Portfolio Enables Low-Power 400G/800G AI

Experience live demonstrations of our latest technologies for data center interconnects, next generation 800G/1.6T

LPO vs NPO vs CPO: Optical Interconnects in AI Data

Among the emerging technologies, LPO (Linear Pluggable Optics), NPO (Near-Packaged Optics), and

Revolutionizing AI and ML Interconnects with Linear Pluggable Optical

Discover how Semtech's Linear Pluggable Optical links revolutionize AI and ML interconnects in data centers,

LPO vs CPO: Understanding the Future of Data Center Optical ...

LPO, or Linear Drive Pluggable Optics, simplifies optical modules by removing the DSP entirely, relying on host

Co-Packaged Optics (CPO) 2025-2035: Technologies,

Co-Packaged Optics (CPO) presents a promising solution to these challenges. Unlike traditional pluggable

September 2023 Progress in Linear Drive Pluggable Optics

Non-retimed Linear Drive Pluggable Optics (LPO) was the hottest topic at OFC 2023 and it continued to draw a crowd at the most

Linear Pluggable Optics (LPO) for Data Centers Market Research

The Linear Pluggable Optics (LPO) for Data Centers market was valued at \$1.0B in 2025 and is projected to reach

Arista LPO-800G-2DR4 Compatible 800G OSFP 2xDR4/DR8 Linear

Arista LPO-800G-2DR4 compatible OSFP-800LPO-2DR4 is an 800G Linear Pluggable Optics (LPO) transceiver with LPO

Data Center Interconnect with Cisco Coherent Pluggable Optics

The solution simplifies transport between data centers by replacing stand-alone optical transponders with the Cisco® portfolio of

Linear Pluggable Optics Beyond 112G: Where are the use cases ?

Comparison to Time-Domain Model E. Chou, et al.*, "100G and 200G per Lane Linear Drive Optics for Data Center Applications",

How Linear-Drive Pluggable Optics (LPO) Is Revolutionizing 800G ...

Explore how Linear Pluggable Optics (LPO) transforms 800G transceivers in data centers, reducing power, latency,

Linear Pluggable Optics – An Overview

Comparison of proposed solutions: In response, several solutions such as Linear Receive Optics (LRO), Linear Pluggable Optics

LPO Transceiver: Embracing the Future of Linear-drive Pluggable Optics

The increase in energy consumption of optical communication devices puts a major burden on the overall use of

Progress in Linear Drive Pluggable Optics

Non-retimed Linear Drive Pluggable Optics (LPO) was the hottest topic at OFC 2023 and it continued to draw a crowd at the most

LPO MSA Announces Release of Specification for Linear Pluggable Optical ...

OFC2025, San Francisco -- The LPO MSA (Linear Pluggable Optics Multi-Source Agreement) Group announced

Webinar Recap: Linear Pluggable Optics - The low-power optical ...

Discover the advantages of Linear Pluggable Optics (LPO) for AI and data centers, focusing on lower power

Direct-Drive Electro-Optical Tech for 800G+ | Synopsys IP

Learn how Direct-Drive Electro-Optical Interfaces are transforming datacenters, enabling efficient data transfer and

LPO & Low-Power Optics Guide 2025 | Data Center

Complete guide to Linear Pluggable Optics (LPO) for data centers. Learn how LPO reduces

LPO and CPO: A Pivotal Shift and Synergistic Evolution

Optical transceivers, optical DSPs (oDSPs), and switch ASICs are the core components of

What are linear pluggable optics?

Learn how linear pluggable optics (LPOs) reduce power use, cost and latency by eliminating the DSP and enabling efficient AI, ML

Price list for LPO high-speed optical and electrical connections for ...

Explore how linear pluggable optics (LPO) technology tackles data center challenges. Discover FS's cutting-edge LPO transceivers

Linear Drive Pluggable Optics

Linear Drive Pluggable Optics (LPOs) have gained tremendous attention during 2023 and this document attempts to de-mystify the

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

Designed for AI/ML applications, this advanced 800G DR8 OSFP finned top LPO module enables high-speed data transmission with

FiberEdge® & DirectEdge™ | Signal Integrity Technology | Semtech

With Semtech's FiberEdge® and DirectEdge™ portfolios™, module manufacturers can deploy high-bandwidth connectivity solutions

Understanding LPO Transceivers in Modern Data Centers

LPO transceivers cut power use, lower latency, and boost reliability in data centers, making

Revolutionizing Data Centers with a Linear Pluggable

One of the most groundbreaking network innovations driving transformations of data centers

Linear Pluggable Optics_V2

Linear Pluggable Optics – An Overview Introduction: With the advent of Artificial intelligence (AI) and the push to increase domestic

Advancements in Linear Drive Pluggable Optics for High-Speed Data ...

Yosef Ben Ezra, CTO & Co-Founder, NewPhotonics As data center AI workloads gain

Linear Drive Optics May Reduce Data Latency

As designs continue to evolve, current optical interconnects choices are now between traditional pluggables, CPOs,

LightCounting :: Progress in Linear Drive Pluggable Optics

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