

New model with pluggable optical module





Overview

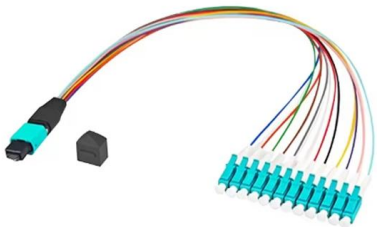
XPO represents a new class of optical pluggable module designed specifically for next-generation AI data center fabrics. While the industry-standard OSFP (Octal Small Form-Factor Pluggable) module has successfully enabled 400Gbps, 800Gbps, and 1.6Tbps. Are pluggable optics dead or alive for the AI era?

Are pluggables relevant in the AI era?

Majority of the switch ports in AI back-end Networks to be 800 Gbps in 2025 and 1600 Gbps in 2027, showing a very fast migration to the highest speeds available in the market. Kista, Sweden - April 15, 2026 - Silero Semiconductors AB (STO:SIV), a global leader in photonics and wireless technologies, today announced a collaboration with Jabil, a global engineering, supply chain, and manufacturing solutions provider. Marvell has become a founding member of the eXtra dense Pluggable Optics (XPO) Multi-Source Agreement (MSA), an industry initiative organized by Arista Networks to define a new optical transceiver form factor purpose-built for AI-scale infrastructure.



New model with pluggable optical module



Co-Packaged Optics Market Report 2026-2036: NVIDIA vs. Broadcom

The global Co-Packaged Optics (CPO) market is set for transformative growth, driven by the burgeoning demands of AI, large language models, and generative AI. CPO technology

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400G, 800G, and Terabit Pluggable Optics:

Equipment and electrical serdes can evolve through 3 generations (25 Gb/s, 50 Gb/s or 100 Gb/s) without changing the optical interface that interconnects your equipment.

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OFC 2026: Marvell launches new 1.6T ZR+ coherent transceiver module

OFC 2026: Marvell launches new 1.6T ZR+ coherent transceiver module for AI DCI Marvell's COLORZ 1600 pluggable (Credit: Marvell)
Marvell has announced the industry's first 1.6 Tbit/s ZR/ZR+ data

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XPO: Redefining Pluggable Optics for AI Networking

The XPO pluggable module preserves the advantages of field pluggability, enabling quick replacement or upgrades of optical modules without servicing the entire switch and minimizing downtime.



Ciena launches 6.4T CPO engine, cuts power up to 70

New Vesta 200 6.4T CPX engine aims to cut optical interconnect power use by up to 70%, helping hyperscalers handle AI workloads; Ciena

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Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

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Arista Announces XPO High Density Liquid Cooled Pluggable Optics

"The XPO module is a breakthrough for AI data centers delivering 4X the front panel density compared to OSFP, while preserving the configurability and serviceability of a pluggable

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SFP Optical Transceivers: How Pluggable Optics Are Reshaping

1. Introduction: The Pluggable Revolution In the era of hyperscale AI computing and always-on global connectivity, the optical transceiver module has quietly become one of the most

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Inside an AI server today, the GPUs talk to each other through copper

dylan ? (@demian_ai). 35 replies. Inside an AI server today, the GPUs talk to each other through copper cables and small pluggable optical modules. Starting in the second half of 2026, that

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OCI MSA: Nvidia, AMD, Meta Form Optical Interconnect Alliance

Nvidia, AMD, Broadcom, Meta, Microsoft, and OpenAI launch OCI MSA to solve AI data bottleneck with optical interconnect specification for next-generation AI.

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ECOC 2025 CPO becomes the focus again, Nvidia says it will

Test data also showed that the switch outperformed retiming pluggable modules and linear pluggable optical modules (LPO) in terms of energy efficiency and reliability. During ECOC

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OFC 2026 Special: Arista Leads XPO Launch as Three

Arista has disclosed that the new 12.8 Tbps liquid-cooled optical module can achieve a front-panel bandwidth density of 204.8 Tbps per OCP rack

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Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal choice for a wide range of

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XPO MSA Introduces 12.8 Tbps Pluggable Optics

Arista Networks announced the formation of the XPO (eXtra-dense Pluggable Optics) Multi-Source Agreement (MSA), an industry initiative aimed at

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The Light-Speed Revolution: Co-Packaged Optics and the Future of AI

The technical leap from traditional pluggable optics to CPO is defined by two critical metrics: bandwidth density and energy efficiency. Traditional pluggable modules, while convenient,

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Linear Pluggable Optics - An Overview

Comparison of proposed solutions: In response, several solutions such as Linear Receive Optics (LRO), Linear Pluggable Optics (LPO) and Co-Packaged Optics (CPO) have been proposed. Fig. 1

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Introducing Linear Pluggable Optics (LPO)

Linear Pluggable Optics (LPO) are a new optical transceiver technology. The idea is simple: instead of a DSP (digital signal processor) inside the module & ndash;

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Near-Package Optics: Evolution of Optical Connectivity

Optical connectivity architectures are shifting from traditional pluggable modules toward lower-power integration models. Pluggables remain widely deployed and highly serviceable.

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Inside the coherent pluggable flywheel

Second is cost. The pluggable modules reduce the overall system cost by packing digital signal processors and other components into their small form factors, enabling what is now popular

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Cisco OSFP 800G Transceiver Modules Data Sheet

The OSFP 800G transceiver modules are Cisco's new generation of pluggable transceiver modules based on the OSFP specification. They offer

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Ciena intros pluggable optical engine to boost co

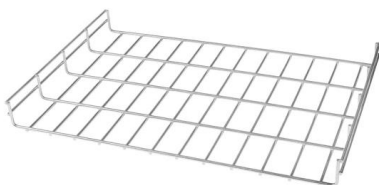
Ciena unveiled its Vesta 200 6.4T CPX co-packaged optics engine, touting vendor interoperability and r , Ciena says its new co-packaged optics

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Sivers Semiconductors Collaborates With Jabil on Energy Efficient

Through this collaboration, Jabil plans to develop a 1.6T linear receive optical (LRO) transceiver module using Sivers' high-performance Distributed Feedback (DFB) lasers. The new

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Optic Modules Datasheet

What is a pluggable? The future of optical networking.

A pluggable, or small form-factor pluggable (SFP) optical transceiver is a compact, removable module standardized to convert high-speed electrical

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Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the technical specifications for each.

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Marvell Joins XPO MSA To Accelerate Innovation in AI

Marvell has become a founding member of the eXtra dense Pluggable Optics (XPO) Multi-Source Agreement (MSA), an industry initiative organized by

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SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver

QSFP28 optical module: the interface package size of QSFP28 is the same with QSFP+, which is mainly used in Data Center application. OSFP (Octal Small

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<https://www.frindel.es>