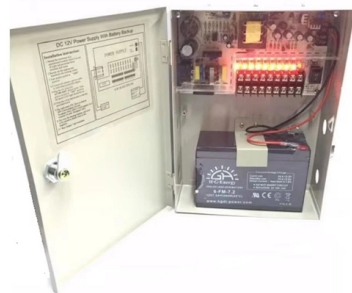


## XPO optical module ONU



### Overview

Amphenol XPO-LPO optical transceiver delivers next-generation 12.8T Ethernet connectivity with 224 Gb/s per lane. Leveraging LPO technology, the module provides ultra-low-latency, power-efficient optical links tailored for AI, high-performance computing, and hyperscale data. XPO represents a new class of optical pluggable module designed specifically for next-generation AI data center fabrics. Data center networks are evolving from traditional cloud architectures into hyperscale interconnect systems centered on AI training and inference. In this transformation, the network is no longer just a data transport. 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. The XPO concept is designed to dramatically. XGS-PON, as the mainstream 10G symmetrical passive optical access technology, is becoming the preferred solution for FTTH, FTTB, and enterprise private line services. The specification introduces a 12.



## Article Content

### XPO: Redefining Pluggable Optics for AI Networking

XPO represents a new class of optical pluggable module designed specifically for next-generation AI data center fabrics. Each XPO module delivers 12.8Tbps of bandwidth using 64 electrical lanes and

### XPO-LPO Optical Transceiver | Optical Interconnect

Leveraging LPO technology, the module provides ultra-low-latency, power-efficient optical links tailored for AI, high-performance computing, and

### What Is an XPO Transceiver? How Does It Differ from CPO?

What is an XPO (eXtra-dense Pluggable Optics) transceiver? Learn its architecture, key innovations such as dual-PCB design and liquid cooling, and how it compares with CPO for AI data

### Marvell Joins XPO MSA To Accelerate Innovation in AI

Marvell becomes a founding member of the XPO MSA, introducing a new liquid-cooled optical module form factor that delivers 12.8 Tbps and 4x

### FS XGS-PON Portfolio: Transceiver, ONU Stick,

FS offers a comprehensive range of XGS-PON SFP+ transceivers, ONU Sticks, and Combo modules. Please refer to the product list below for

### XPO MSA Introduces 12.8 Tbps Pluggable Optics

The specification introduces a 12.8 Tbps liquid-cooled optics module designed to dramatically increase bandwidth density while supporting the

### xPO Application: High-Density Fiber Shuffle in Servers

Its compact, modular design enhances thermal performance and ensures reliable optical signal management in confined 2RU/3RU spaces, making it a key

### XPO Transceiver Overview: What is the Difference Between CPO?

This article will introduce what XPO (eXtra-dense Pluggable Optics) is, how this module works, and its main differences and applications compared to CPO. As optical modules have evolved

### What Is an XPO Transceiver? How Does It Differ from CPO?

XPO is a next-generation pluggable optical transceiver designed for high-density and high-power environments.

## 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

## New Paradigm of Optical Interconnection Under the Computing Power ...

The sustained demand for AI computing power drives optical interconnection technology to evolve from traditional pluggable modules into three new technical routes: NPO, CPO and XPO,

\$MXL is up 415% in one month and 20% today. The market is re

The market is re-pricing the scale-up play. Every optical transceiver in every AI datacenter – every 800G module connecting GPU to GPU, rack to rack, building to building – needs a DSP. A

## \$LITE \$COHR \$CIEN \$AAOI EXECUTIVE OVERVIEW Across the

Broadcom described OCI as an open specification for low-power optical SerDes in multi-rack scale-up systems, Ciena's CPX and Vesta 200 offer a pluggable co-packaged optical engine

## Optical Transceivers | Fiber Optic Transceivers | Form

Leveraging LPO technology, the module provides ultra-low-latency, power-efficient optical links tailored for AI, high-performance computing, and

## Coherent Demonstrates Technologies for Next-Generation Pluggable ...

Coherent will showcase a comprehensive portfolio of next-generation pluggable optical technologies at OFC 2026, spanning 1.6T, 3.2T, and emerging architectures for 12.8T and beyond.

## OFC 2026 – Scaling Up Optical Network Density

1.6 Tbps ZR/ZR+ optics xPO form factor pluggable module Full Spectrum Transponder Multi-rail ILA You can imagine. Combining all four product features into an optical network will

## GMT EIGHT

CITIC Securities: Arista releases the XPO new generation pluggable optical module solution, focusing on the opportunity for AI optical interconnection density upgrade.

## Arista Announces XPO High Density Liquid Cooled Pluggable Optics

Arista Networks today announced the formation of a multi-source agreement for XPO, a revolutionary 12.8 Tbps liquid cooled optics module that supports a front panel density of 204.8 Tbps

## Contact Us

Continue your research online:

Website: <https://jewelbluimages.co.za>

Technical inquiry: <https://jewelbluimages.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

