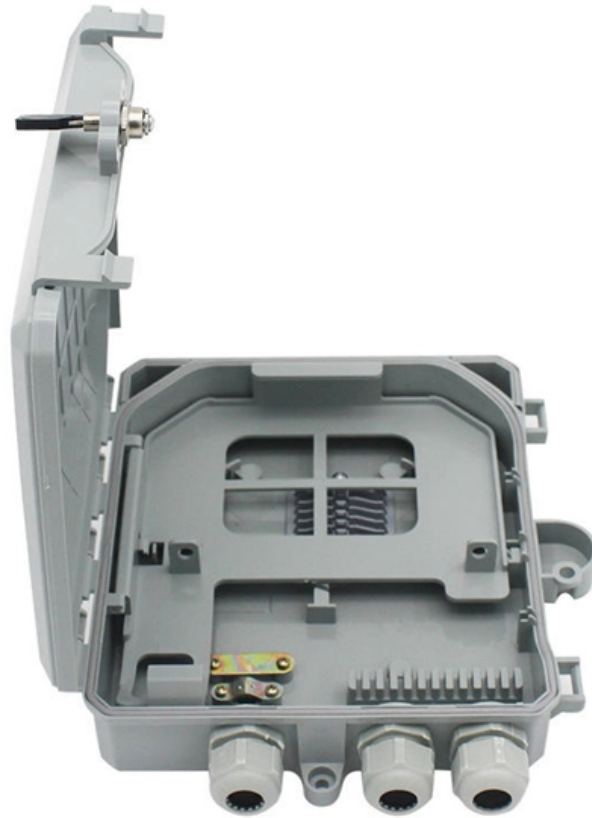


# **Syria Coherent Optical Module OSFP**





## Overview

---

Utilizing the latest in house SiPho Coherent Optical Subassembly (COSA) and nano-ITLA, this module delivers superior cost/performance for applications ranging from data-center interconnects to router-router connectivity and access network demands. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. OSFP Coherent Optical Module by Application (Data Center Interconnect, Long-Haul Network, Metropolitan Area Network, Other), by Types (200G OSFP Coherent Optical Module, 400G OSFP Coherent Optical Module, Other), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina. Octal Small Form-factor Pluggable (OSFP) solution that fits into high-density switch and router client ports for optical interconnect links Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization Supports. The Lumentum 400ZR module on an OSFP form factor is designed for use by hyperscale data center operators and peering networks to provide high bandwidth interconnections in an industry standard, interoperable footprint. This whitepaper highlights the key aspects and features of each solution with the expectation that both solutions will have a place in future data center applications.



## Syria Coherent Optical Module OSFP

---

# Coherent to Unveil Breakthrough AI-Scale Optical Innovations and

---

Coherent will unveil AI-scale optical innovations at OFC 2026, showcasing technologies that advance bandwidth, scalability, and energy efficiency.

## Top Optical Modules for POTN Deployment: SFP, QSFP, and OSFP

---

Modern optical transport networks are the nervous system of digital infrastructure. As data demand continues to multiply, choosing the right optical module becomes a crucial decision in



## OSFP MSA Rev 5.0

---

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal requirements of the OSFP Module, connector and cage systems. The OSFP

## CFP2-DCO vs QSFP-DD DCO vs OSFP-DCO: What's

---

Coherent modules such as CFP2-DCO, QSFP-DD DCO, and OSFP-DCO typically include coherent optical receivers and digital signal processors

## Lumentum

---

Lumentum Holdings Inc. ("Lumentum"), a global leader in photonic solutions, today announced its showcase of technology and product demonstrations designed to meet



the

## **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

## **NVIDIA/Mellanox MMA4Z00-NS-T Compatible Coherent**

---

NVIDIA/Mellanox MMA4Z00-NS-T Coherent VCSEL & Broadcom DSP Compatible  
OSFP-800G-2xSR4 OSFP PAM4 Optical Transceiver Module, Support



## **A Guide to 800G Optical Module Form Factors**

---

800G optical transceivers are revolutionizing high-speed networking, catering to the growing demands of cloud computing, AI-driven applications, and next-generation telecom

## **800G Optical Transceiver Market Share , Industry**

---

800G Coherent Modules (Long-Haul) - Designed for long-distance and metro network connections, leveraging coherent optics for high-speed and energy

## **OSFP-XD, OCTAL SMALL FORM FACTOR eXtra Dense PLUGGABLE MODULE**

---

Abstract: This specification defines the electrical connectors, electrical signals and power



supplies, mechanical and thermal requirements of the OSFP-XD Module, connector and cage systems. The

## **Coherent Optical Modules - GIGALIGHT**

---

GIGALIGHT provides 100G, 200G, and 400G pluggable digital coherent optical transceiver modules (DCO) for data center interconnection (DCI), 5G backhaul, metro telecommunication, and other long

## **OSFP1600\_and\_OSFP-XD**

---

To accommodate both high-power optical and dense copper solutions, the specification will define separate but compatible heatsink specifications for both optical and copper modules, allowing



## Innovation Trends in OSFP Optical Module: Market

---

The OSFP optical module market is booming, driven by high-bandwidth demands in data centers and HPC. Explore market size, CAGR, key players (II-VI, Cisco,

### 800G OSFP ZR Coherent

---

The EOLO-168HG-B/E-5X OSFP 800G ZR/ZR+ transceiver is compliant to the OIF-800ZR standard. The module is based on optical engine and the latest coherent

### OSFP Product Family » Acacia

---

Octal Small Form-factor Pluggable (OSFP) solution that fits into high-density switch and router client ports for optical interconnect links. Powered by Greylock and



## **FTRJ-8519-1 Specifications**

---

They are compliant with the OSFP MSA, IEEE 802.3bs6 and IEEE P802.3ck7 Digital diagnostic functions are available via the I2C interface, as specified by the OSFP MSA.

## **800G Digital Coherent Optics (DCO) Transceiver Market 2026**

---

Other Trends Advancements in Form Factor Specifications Key developments in 800G Digital Coherent Optics (DCO) Transceiver Market focus on form factors like QSFP-DD and OSFP specifications,

## **800Gbps QFSP Form Factor Transceiver Module**

---



QSFPDD and OSFP are the most popular and compact form factors used in DCI applications. This new 800G transceiver uses Coherent's 140 Gbaud IC-TROSA

## **400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4**

---

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

## **Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules**

---

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco Transceiver Modules Compatibility Matrix.



## Coherent Optics vs NRZ vs PAM4 in Next-Generation Networks

---

Cost: Coherent optics require complex hardware and advanced packaging. Form factor integration: Transitioning from bulky CFP2 modules to compact QSFP-DD/OSFP remains an

## Nokia CSTAR Coherent Optical Engines

---

Ideal for use in QSFP-DD, OSFP, and CFP2-DCO pluggable modules, as well as in fixed optics transponder cards, Nokia CSTAR engines provide a fully integrated coherent optical subassembly

## 400G ZR/ZR+ OSFP-DCO

---



Utilizing the latest in house SiPho Coherent Optical Subassembly (COSA) and nano-ITLA, this module delivers superior cost/performance for applications ranging

## **OSFP1600\_and\_OSFP-XD**

---

OSFP-XD can also support 8-lane optics modules that want to take advantage of thermal management capabilities and useable volume inside the module. An 8-lane OSFP-XD module (tentatively referred

## **OSFP Coherent Optical Module Planning for the Future: Key Trends**

---

The size of the OSFP Coherent Optical Module market was valued at USD XXX million in 2024 and is projected to reach USD XXX million by 2033, with an expected CAGR of XX% during the



## **DCI Optical Modules , Delivering high bandwidth over**

---

Explore DCI Modules Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks. Using Marvell coherent DSP

## **Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent**

---

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco

## **OSFP Transceivers: High-Density Optical Connectivity from 400G to**

---

Designed for high thermal capacity, electrical scalability, and forward compatibility,



OSFP modules now drive connectivity across 400G, 800G and the emerging 1.6T generation.

## Contact Us

---

For datasheets, pricing, or custom optical networking solutions, please visit:  
<https://www.entrenamientointeligente.es>