

Bahamas Coherent Optical Module OSFP



Article Overview

The Bahamas OSFP coherent optical module is a high-speed, pluggable transceiver supporting 400G to 800G coherent transmission for data center and metro/regional DWDM networks.

Overview

The Bahamas OSFP module is part of the OSFP (Octal Small Form-factor Pluggable) family of coherent optical transceivers designed for high-capacity data transport. It supports multi-rate coherent transmission, including 400G, 600G, and 800G line rates, and is compatible with Dense Wavelength Division Multiplexing (DWDM) networks for both short-reach Data Center Interconnects (DCI) and long-haul metro/regional applications. The module uses a duplex LC interface and is mechanically compliant with the OSFP MSA standard.

Key Features

- **Data Rates:** Supports 400G, 600G, and 800G coherent line rates, with future OSFP1600 modules supporting up to 1.6Tb/s using 8x200Gb/s host interfaces.
- **Reach:** Capable of up to 120 km for 800ZR and beyond 1000 km for 800G ZR+ over amplified DWDM links.
- **Thermal Management:** Integrated heatsink design allows for 30+ Watt thermal performance, ensuring reliable operation in high-density data center environments.
- **Compatibility:** Backward compatible with OSFP800 modules and supports IP-over-DWDM applications directly from router or switch ports.

Article Content

400G ZR/ZR+ OSFP-DCO

Utilizing the latest in house SiPho Coherent Optical Subassembly (COSA) and nano-ITLA, this module delivers superior

A Guide to 800G Optical Module Form Factors

800G optical transceivers are revolutionizing high-speed networking, catering to the growing demands of cloud

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

Designed for high thermal capacity, electrical scalability, and forward compatibility, OSFP modules now drive

800G Client Optics in the Data Center

Data center interconnect links that had previously relied on separate optical transport systems with integrated coherent transceivers

800G/600G/400G OSFP Digital Coherent Optics

The 800G Digital Coherent Optics (DCO) family of transceivers are available in

What is OSFP Octal Small Form Factor Pluggable?

The long-awaited public launch of efforts to develop the Octal Small Form Factor Pluggable (OSFP) optical

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

Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense

2x400G DR4+ OSFP Optical Transceiver

FTCE4527E1PxA-2N 2x400G DR4+ OSFP transceiver modules are designed for use in 800 Gigabit Ethernet links on up to 2km of

OFC 2025 Accelink | Lighting Your Dreams

California, March 31, 2025 – Accelink, a leading innovator in optical communication solutions, today announced that it will showcase

FTRJ-8519-1 Specifications

XI. References OSFP Specification for OSFP Octal small form factor pluggable module Directive 2011/65/EU of the European

NeoPhotonics" QSFP-DD and OSFP 400ZR coherent modules

Both the OSFP and QSFP-DD leverage NeoPhotonics' silicon photonics Coherent Optical Subassembly (COSA) and

Coherent |1.6T OSFP Optical Module | OFC 2026 Demo

Discover Coherent's latest 1.6T OSFP optical module demonstrated live at OFC 2026,

800G/600G/400G OSFP Digital Coherent Optics Transceiver

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

Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the

400G ZR+ OSFP Coherent DCO Transceivers

The 400 ZR+ module on an OSFP form factor is designed for use by hyperscale data center operators and peering networks to

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

As hyperscale data centers shift toward AI-optimized fabrics and ultra-high-bandwidth switching platforms, the OSFP

Next-Generation Coherent Moves to the OSFP | Your

Next-Generation Coherent Moves to the OSFP The insatiable demand for bandwidth has put data center

Introduction to OSFP Optical Transceiver

The OSFP receptacle does not offer backwards intermate-ability to existing modules since it favors optimizing the electrical,

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

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

800G Optical Modules Explained: Standards, Types & Use Cases

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power

Understanding OSFP Modules: Your Guide to High-Speed Optical ...

Discover how OSFP modules provide high-speed optical connectivity for data center applications. Learn about the

OSFP1600_and_OSFP-XD

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

OSFP Product Family » Acacia

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

Genuine optics coherent series products.

800G OSFP ZR+ Pro Transceiver is a high performance, high output power, cost effective pluggable DCO module compatible with

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

Coherent Optical Module Market Size | Trends & Forecast 2035

Coherent Optical Module Market Overview: The Coherent Optical Module Market Size was valued at 5.72 USD Billion in 2024. The

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

OSFP1600 modules can be plugged into and recognized by the OSFP/OSFP800 port. However, such a use case is not advisable as

Coherent Optical Modules: DCI & Metro Guide 2026

Learn how coherent optical modules work and when to choose 400G ZR/ZR+, QSFP-DD DCO, or OSFP for DCI and

Contact Us

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