

Imported Optical Modulator OSFP



Overview

OSFP stands for Octal Small Form-factor Pluggable. OSFP is a high-speed, high-density, hot-pluggable transceiver module used in data communication applications, targeting speeds of 400G, 800G, and even 1. As hyperscale data centers shift toward AI-optimized fabrics and ultra-high-bandwidth switching platforms, the OSFP (Octal Small Form-Factor Pluggable) form factor has become central to next-generation optical architectures. Designed for high thermal capacity, electrical scalability, and forward. 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 Management interface is described in a separate document, Common Management Interface Specification for 8/16X. 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+. These input/output (I/O) solutions support aggregate data rates up to 1.



Article Content

Jul 07, 2026

400G ZR/ZR+ OSFP-DCO

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

Aug 02, 2025

NVIDIA MMS4A20-XM800 Single Port Transceiver 800Gbps OSFP

4-channels And Optical Modulation Osfp Riding Heat Sink, Flat Top Connector
1310nm Laser Single Mpo-12/apc Optical Connector 500m Max Reach Maximum
Reach: 500-meters 18w Max Power2w

Jun 26, 2026

OSFP MSA Rev 5

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

Jan 25, 2026

Fujitsu Optical Components Limited

Fujitsu Optical Components Limited Fujitsu Optical Components joins other Optical Internetworking Forum (OIF) members which includes system venders, component venders and test equipment

Feb 19, 2026

Understanding OSFP Modules: Your Guide to High

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

Dec 01, 2025

SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD,

Initial Published: February 19, 2022 The optical transceiver plays a crucial role in modern fiber networking. Various high-speed transceiver types

Mar 24, 2026

Understanding OSFP MSA: The Future of Optical

In this world of rapidly changing data communication, there is an increasing need for optical transceivers that work at high speed and are efficient.

Jul 31, 2025

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

Aug 23, 2025

Optical Transceiver: Channel Configuration, Modulation

Explores the channel configuration, modulation schemes, and future development trends in optical transceiver design in three main sections.

May 19, 2026

400G OSFP

OSFP is designed to support the next generation of 800G optics modules that will use eight lanes of 100Gbps, and offers backwards compatibility with 100G

Aug 03, 2025

400G OSFP Transceiver Optics Overview

400G OSFP transceiver provides a good solution for 400Gbps optical deployments in data centers and broadband access connectivity. More and

May 26, 2026

OSFP Connector System

OSFP connectors are slightly larger than QSFP-DD connectors but offer increased thermal performance and signal integrity at high data rates. The OSFP system

Jan 07, 2026

Redes de próxima generación: lanzamiento del transceptor óptico

Descubre los detalles de Next-Generation Networking: Launch of the 800G OSFP VR8 MPO Optical Transceiver for AI Data Centers En el LonRise Equipment Co. Ltd., un proveedor líder

Aug 17, 2025

Exploring the World of 400G OSFP Transceiver: Types,

Explore different types of 400G OSFP transceivers & their optical connections, including OSFP SR8, DR4, FR4. Upgrade your data center with

Jun 03, 2026

OSFP vs. QSFP vs. SFP: Which Is Right for You?

Confused about the differences between OSFP, QSFP, and SFP? This guide explains their distinct features, applications, and helps you choose

Jun 27, 2026

OSFP Connectors & Cable Assemblies

Combined with strong electrical performance and broad system compatibility, TE OSFP connectors and cable assemblies deliver a balanced solution for today's

Nov 04, 2025

NVIDIA MMS4A00 1600Gbps, 2xDR4, Twin-port OSFP,

The NVIDIA MMS4A00 is a 1600Gb/s 2xDR4, single mode optical transceiver supporting the XDR 800Gb/s InfiniBand protocol. The line rate is 200Gb/s using

Jan 03, 2026

OSFP MSA Rev 5.0

The OSFP module contains a PCB with contact pads (i.e., module PC board; paddle card) that mate with a connector as specified in Section 5.10 of this document. Critical dimensions for the contact

Oct 12, 2025

OSFP Guide

OSFP is a high-speed, high-density, hot-pluggable transceiver module used in data communication applications, targeting speeds of 400G, 800G, and even 1.6TB.

Jul 09, 2026

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

Below sub-sections illustrate block diagrams for a sampling of optical physical medium dependent sublayers (PMDs) that can be realized in an OSFP form factor. These block diagrams are meant to

Aug 19, 2025

800G Module Packaging: QSFP-DD or OSFP, Which

Discover the differences between 800G QSFP-DD and OSFP modules. Learn which packaging offers the best performance, heat dissipation,

Aug 19, 2025

Welcome to OSFPmsa

A: No, due to mechanical and electrical differences, OSFP modules are not compatible with OSFP-XD ports, and vice-versa. Mechanical keying features on

Aug 24, 2025

The Ultimate Guide to OSFP 400G DR4 Optical Modules

The OSFP (Octal Small Form-Factor Pluggable) 400G DR4 optical module plays a critical role in today's high-speed data communication networks. With the ability to transmit data at speeds

Oct 11, 2025

OSFP MSA Rev 5.0

OSFP-RHS nose shape is updated to avoid a potential interference with a connector (Fig 9-8). OSFP-RHS heatsink contact area is adjusted (Sec. 9). OSFP800 specification is added, with PMDs (Sec.

Jan 12, 2026

Introduction to OSFP

Core Features of OSFP OSFP optical modules have several notable features: Eight-Channel High-Speed Data Transmission: OSFP achieves high

Aug 12, 2025

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 (Octal Small Form-Factor Pluggable) form factor has become central

Contact Us

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