

Slovenia High-Speed Optical-Electronic Connection OSFP



Overview

The OSFP is a pluggable module form factor specifically engineered for high-speed applications. OSFP features eight high-speed electrical lanes that support up to 400G (8x50G or 4x100G), 800G (8x100G or 4x200G), or 1. Unlike the backward-compatible QSFP-DD, OSFP introduces a slightly larger mechanical form to. TE's Octal Small Form Factor Pluggable (OSFP) connectors and cable assemblies support aggregate data rates from 200 Gbps up to 1.6T, enabling data center architectures to scale with evolving bandwidth and performance requirements. Designed to support 28G NRZ, 56G PAM4, 112G PAM4, and 224G PAM4. Chip-to-Chip implementations are looking for reliable, high-performance backplane, mezzanine, and copper cable interconnects to support short, medium, and long reach channels. This article explores how OSFP transceivers deliver high-density, high-speed connectivity and how FS helps customers transition smoothly. When talking of transceivers and high-speed networks, the OSFP connector can be viewed from the perspective of other connectors, such as the QSFP – Quad Small Form-factor Pluggable.



Article Content

May 22, 2026

Understanding OSFP: The Future of Transceivers in

Explore the OSFP transceiver: a high-speed, future-ready solution for data centers. Learn its advantages in bandwidth, thermal performance, and signal integrity.

Dec 27, 2025

OSFP Transceivers: High-Density, High-Speed Connectivity from

This article explores how OSFP transceivers deliver high-density, high-speed connectivity and how FS helps customers transition smoothly toward next-generation networks. The

Apr 24, 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 16, 2026

Discovering the World of OSFP: A Comprehensive Guide

The Octal Small Form-factor Pluggable (OSFP) represents a pivotal advancement in the world of networking technologies. It is designed to support

Jan 07, 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

Feb 22, 2026

OSFP Cable Overview and Applications - aobla

OSFP breakout cables allow connections between high-density ports and multiple lower-speed devices. ## Applications of OSFP Cables OSFP cables find extensive use in various high

May 11, 2026

Understanding OSFP Cable Assemblies: The Key to

Discover how OSFP cable assemblies revolutionize data interconnect solutions, supporting 400G speeds and advanced signaling like PAM4 for data

Feb 24, 2026

OSFP Connectors 2025: Design, QSFP-DD

This article unpacks what the OSFP connector is, how it differs from QSFP-DD and other form factors, what engineering challenges it solves, and

Dec 20, 2025

Welcome to OSFPmsa

A: The OSFP-XD is a pluggable form factor with 16x high speed electrical lanes, doubling the faceplate density versus OSFP. Hence, it supports up to 800 Gbps

Jan 03, 2026

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

Applications: QSFP modules are the go-to choice for data center interconnects, hyperscale computing environments, and telecommunication

Mar 02, 2026

How to Achieve Interconnection Between OSFP and QSFP-DD Ports?

With exponential traffic growth, hyperscale data centers must deploy multiple high-speed optical modules to meet varied demands. However, the coexistence of OSFP and QSFP-DD form

May 19, 2026

OSFP-XD, OCTAL SMALL FORM FACTOR eXtra Dense

OSFP-XD Riding Heat Sink (OSFP-XD-RHS) is a 10.5mm high pluggable module which does not have an integrated heat sink as shown in the Figure 8-1 and Figure 8-2. In place of OSFP-XD's integrated

Oct 16, 2025

OSFP | High Speed Interconnects | Amphenol

Amphenol OSFP interconnect system has 60 contacts per port, with a 0.6mm contact pitch and 8 high speed channels. The OSFP footprint is optimized

Dec 14, 2025

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

Jan 01, 2026

QSFP-DD vs OSFP: What Are the Differences?

OSFP is a new pluggable form factor with eight high speed electrical lanes that will initially support 400Gb/s (8x50G) or reach up to 800Gb/s. The width, length and

May 15, 2026

A Comprehensive Guide to 800G Optical Transceivers

An in-depth guide to 800G and OSFP transceivers, explaining form factors, core features, key advantages, application scenarios, FAQs, and their

May 18, 2026

The Ultimate Guide to OSFP Transceivers: Unveiling

Dive into the complexities of OSFP transceivers for 400G optical connectivity with Fibermall's ultimate guide.

Feb 24, 2026

Understanding the OSFP Standard: The Open 400G/800G Optical

Learn how OSFP (Octal Small Form Factor Pluggable) enables scalable 400G and 800G Ethernet connectivity with superior thermal design, power efficiency, and compatibility.

Jul 09, 2025

OSFP Connector Guide: 400G and 800G Modules,

Explore the OSFP connector series by TE Connectivity, designed for high-density interconnect systems. Discover 200G to 400 Gbps solutions for

Jun 02, 2026

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 17, 2026

OSFP Optical Transceiver MSA Spec

The OSFP module and host high-speed signal, low-speed signal and power contacts shall withstand 1000 V electrostatic discharge based on Human Body Model per ANSI/ESDA/JEDEC JS-001.

Jul 27, 2025

112G High Speed Solutions

Fully compatible with OSFP industry standards and with both high speed and sideband signal requirements. These cable assemblies lower system costs by eliminating the need for re

Mar 09, 2026

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

OSFP Riding Heat Sink (OSFP-RHS) is a 9.5mm high pluggable module which does not have an integrated heat sink as shown in the Figure 9-1 and Figure 9-2. In place of OSFP's integrated heat

Contact Us

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