

Swedish Optical Line Terminal OSFP



Overview

The OSFP (Octal Small Form-Factor Pluggable) is a pluggable transceiver form factor designed to support 8 electrical lanes, each carrying high-speed signals. OSFP-400G: $8 \times 50\text{G PAM4} = 400\text{G}$. This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal requirements of the OSFP Module, connector and cage systems. These input/output (I/O) solutions support aggregate data rates up to 1. This article unpacks what the OSFP connector is. EXTREMEPORT™ OSFP CONNECTOR AND CAGE SYSTEMS SUPPORTING 56G, 112G & 224G Amphenol's ExtremePort™ OSFP connector and cage family delivers a scalable, high-performance interconnect platform designed for next-generation data centers, high-density switch/router systems, and high-speed serial. The QSFP-DD OLS is a pluggable open line system solution that can be directly hosted on a Cisco router. The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple yet powerful open.



Article Content

Dec 11, 2025

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

Jan 28, 2026

Connectors and Cages

The octal small form-factor plug, or OSFP, has become the preferred form-factor for high-speed applications such as artificial intelligence and HPC networking as it offers future expansion

Jun 24, 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 high-density, high-power network

Jan 01, 2026

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

This “pluggable open line system” perfectly integrates into the Cisco Routed Optical Networking architecture by hosting line system abilities directly on a router.

Dec 07, 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.

May 23, 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

Nov 30, 2025

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May 14, 2026

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

OSFP (Octal Small Form Factor Pluggable) is a pluggable optical transceiver interface standard that supports eight electrical lanes (Tx/Rx) per module. Each lane can operate up to 100G

May 23, 2026

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Cisco QSFP-DD Pluggable Open Line System (QDD)

This “pluggable open line system” perfectly integrates into the Cisco Routed Optical Networking architecture by hosting line system abilities directly

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Apr 21, 2026

Understanding the OSFP-XD Connector: The Ultimate

Gain a comprehensive understanding of the OSFP-XD connector, optical transceiver modules, and high-speed cables. Learn how Amphenol leads

Nov 02, 2025

OSFP Connectors 2025: Design, QSFP-DD

OSFP modules are slightly larger than QSFP-DD modules, but this size increase allows for better heat dissipation and higher power envelopes (up

Apr 20, 2026

Lompoc Valley, California News | San Luis Obispo

UPDATE: SpaceX launches Falcon 9 rocket from Vandenberg Space Force Base KSBY Staff 5:12 PM, Apr 04, 2026 Lompoc Valley Cabrillo High School Aquarium honored by California

Apr 12, 2026

OSFP | High Speed Interconnects | Amphenol

Amphenol's OSFP base series supports high-speed transmission with 60 contacts per port, eight high-speed channels, and a ground-supported SI structure. Optimized for 1U systems, it

Mar 28, 2026

OSFP CONNECTORS, CAGES & CABLE ASSEMBLIES

By utilizing integrated thermal heatsink technology in the plug, OSFP products provide superior thermal performance and the signal integrity needed to support 400G data rates.

Dec 22, 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

Oct 11, 2025

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

Sep 19, 2025

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

Jun 08, 2026

OSFP Connectors 2025: Design, QSFP-DD Comparison, and

OSFP modules are slightly larger than QSFP-DD modules, but this size increase allows for better heat dissipation and higher power envelopes (up to ~16 W), making them ideal for next

Feb 01, 2026

1.6T-FR8 – 1.6T OSFP224 2km Transceiver

1.6Tbps OSFP224 optical transceiver for long-reach applications – up to 2km Product Overview The STC-1.6T-FR8 OSFP224 Optical Transceiver Module, utilizing silicon photonics and EML, features 8

Feb 25, 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 supports higher-power modules and is

Contact Us

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