

Denmark Convergence Switch OSFP



Article Overview

OSFP (Octal Small Form Factor Pluggable) modules enable high-speed, high-density switch connectivity with support for up to 1.6Tbps per port, making them ideal for modern data centers and AI-driven networks.

Overview of OSFP

The OSFP connector system is a pluggable form factor designed for high-speed data center switches and routers. It supports 8 or 16 high-speed electrical lanes, enabling aggregate data rates from 400 Gbps (8x50G) up to 1.6 Tbps (8x200G) for standard OSFP modules, and up to 3.2 Tbps for OSFP-XD extended density modules with 16 lanes . OSFP modules are slightly larger than QSFP-DD connectors but provide enhanced thermal performance and signal integrity, which is critical for high-power, high-speed applications .

Key Features

- High Data Rates: Supports 56G, 112G, and 224G PAM-4 signaling, allowing flexible deployment for 400G, 800G, and 1.6Tbps links .
- Thermal Management: Standard OSFP modules include an integrated heatsink, while OSFP-RHS variants allow external cooling solutions for higher versatility .
- Port Density: Up to 36 OSFP ports per 1U switch front panel, with OSFP-XD doubling the faceplate density for 16-lane modules .
- Cable Compatibility: Works with direct-attach cables (DACs), active optical cables (AOCs), and pluggable transceivers, providing flexibility in data center interconnects .
- Applications: Ideal for hyperscale data centers, AI/ML clusters, high-performance c...

Article Content

Jun 02, 2026

Convergence programme | Euronext Securities

Timeline for Convergence project in Denmark Euronext is pleased to announce that the market has aligned on a go-live timeline of

May 10, 2026

OSFP Connectors 2025: Design, QSFP-DD

While QSFP-DD remains common, the OSFP (Octal Small Form-Factor Pluggable) has

Jul 12, 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

Dec 09, 2025

OSFP | High Speed Interconnects | Amphenol

EXTREMEPORT™ OSFP CONNECTOR AND CAGE SYSTEMS SUPPORTING 56G, 112G & 224G Amphenol's ExtremePort™

May 03, 2026

OSFP Connectors & Cable Assemblies

TE's OSFP connectors and cable assemblies address next-generation data center needs by supporting aggregate data rates of

Aug 19, 2025

Ireland Convergence Switch OSFP

NVIDIA InfiniBand XDR 2x36-Port OSFP Managed Switch NVIDIA InfiniBand XDR 2x36-port OSFP Managed Connector to Power

Jan 11, 2026

QSFP-DD vs OSFP: What Are the Differences?

It is obvious that the OSFP form factor is slightly wider and deeper than the QSFP-DD, but it still supports 36 OSFP ports per 1U front

Apr 23, 2026

High Performance Cabling at its best: OSFP-XD and CDFP

Explore how OSFP-XD and CDFP deliver next-generation PCIe® and Ethernet performance. Read the full blog to

Jun 23, 2026

Understanding OSFP: The Future of Transceivers in High-Speed

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

Apr 04, 2026

OSFP Guide

OSFP stands for Octal Small Form-factor Pluggable. OSFP is a high-speed, high-density, hot-pluggable transceiver module used in

Nov 30, 2025

OSFP Connector System

The Octal Small Form Factor Pluggable (OSFP) Connector System provides single- or dual-port, 8- or 16-lane I/O connectivity with

Jun 06, 2026

FS InfiniBand NDR OSFP Solution for 400G/800G HPC Networks

Discover FS InfiniBand NDR OSFP solutions with NVIDIA Quantum-2 switches and ConnectX-7 adapters for

Apr 01, 2026

Ireland Convergence Switch OSFP

NVIDIA InfiniBand XDR 2x36-port OSFP Managed Connector to Power Airflow Switch provides scalable, high-bandwidth connectivity

Jan 17, 2026

Components — NVIDIA DGX SuperPOD: Cabling Data Centers

To fit 64 connections into one rack unit (1U, or 1RU), it uses 32 OSFP connectors and each physical connector

Sep 29, 2025

Strategies for Optimizing OSPF Convergence

Below is a list of optimizations that you might not know about (or maybe you do) that you can incorporate into your

Jan 24, 2026

Welcome to OSFPmsa

Q: Are OSFP and OSFP-XD Interoperable/Cross-compatible? A: No, due to mechanical and electrical differences, OSFP modules

Sep 13, 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

Sep 28, 2025

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

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support

Aug 27, 2025

OSFP Compatible Switches: 2026 Vendor Guide for 400G/800G

Complete OSFP compatible switches guide covering Cisco, Arista, Juniper, NVIDIA. 400G/800G platform

Oct 03, 2025

Switch to StarTech SFPs and save! | Denmark

StarTech SFPs are not only backed by a lifetime warranty and are fully compliant with MSA standards, they also match OEM

Jun 24, 2026

OSFP MSA Rev 5

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

Jul 20, 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

Mar 26, 2026

OSFP Interconnect System

Amphenol Commercial OSFP Interconnect System features 60 contacts per port, with a 0.6mm contact pitch, and

Feb 22, 2026

Welcome to OSFPmsa

OSFP-XD Specification November 23, 2025 Rev 1.11 :: Specification for OSFP-XD Octal Small Form Factor eXtra

Sep 03, 2025

OSFP Connectors & Cable Assemblies

Combined with strong electrical performance and broad system compatibility, TE OSFP connectors and cable assemblies deliver a

Feb 21, 2026

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

While QSFP-DD remains common, the OSFP (Octal Small Form-Factor Pluggable) has emerged as a strong contender, designed

Jan 29, 2026

OSFP Technology: Revolutionizing High-Speed

OSFP-based 800G/1.6T optical modules are becoming the norm. – Data Center Expansion:

Feb 22, 2026

ConnectX7 OSFP to 100Gb QSFP28 switch infrastructure

Google searches have brought up some mentions of OSFP to QSFP28 passive adapters (OSFP to QSFP Adaptor —

Contact Us

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