

# OSFP Aggregation Switch for Field Operations



## Overview

Designed to seamlessly aggregate 100G LR1 to 400G ports and enhance network efficiency, our product serves as the vital link, closing compatibility gaps and guaranteeing seamless interoperability with Arista platforms. Efficient power usage with <10W dissipation & up to 10km. 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 Octal Small Form Factor Pluggable (OSFP) Connector System provides up to 224Gbps PAM-4 per lane, single- or dual-port, 8- or 16-lane connectivity. These input/output (I/O) solutions support aggregate data rates up to 1.6Tbps, helping data centers meet AI-driven capacity demands with minimal. center environment. This innovative, next-generation open networking high-density aggregation switch offers optimum flexibility and cost-effectiveness for artificial intelligence (AI) and machine learning (ML) fabric solutions, Web 2. Designed to support 28G NRZ, 56G PAM4, 112G PAM4, and 224G PAM4. The OSFP MSA is proud to introduce OSFP1600 and OSFP-XD to the industry. The OSFP-XD solution has attracted significant interest in. The FS OSFP-SR8-800G is an 800Gb/s 2x400Gb/s Twin-port OSFP transceiver that supports InfiniBand or Ethernet protocols. This SR8 multimode, parallel, 8-channel transceiver uses two, 4-channel MPO-12/APC optical connectors at 400Gb/s each.

## Article Content

Hot

OSFP AI Networking: Architecting GPU Clusters for Distributed Training

Learn OSFP AI networking architecture for GPU clusters. Covers 800G InfiniBand NDR, spine-leaf design, rail-optimized topologies, and bandwidth requirements for distributed training.

Apr 16, 2026 Hot

OSPF | FortiSwitch 7.6.0 | Fortinet Document Library

Using the GUI: Create a switch virtual interface. See Switch virtual interfaces . Go to Router > Config > OSPF > Settings. If you want to use a VRF instance, select it

Feb 12, 2026 Hot

Arista 400G HD Flex Cabling Application Guide FBAG6-SA-ENG

As customers migrate to spine-leaf architectures with parallel optics transceivers, they must consider the interdependencies between the logical network and physical layer infrastructure. In some

Jun 06, 2026 Hot

ExtremePort OSFP 224G Connectors

Amphenol's ExtremePort™ OSFP 224G interconnect system is comprised of a 60 position, 0.6mm pitch connector built for use in high-speed serial applications. Each port supports up to 1.6Tb/s in

Jan 07, 2026 Hot

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, data rates,

Aug 19, 2025 Hot

OSFP Connector Guide: 400G and 800G Modules,

OSFP Connector Explained: Features and Benefits for 400G 800G Networks OSFP (Octal Small Form-factor Pluggable) is the high-density, hot

Apr 17, 2026 Hot

OSFP MSA Rev 5.0

Abstract: 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

Oct 17, 2025 Hot

OSFP1600\_and\_OSFP-XD

The OSFP MSA is proud to introduce OSFP1600 and OSFP-XD to the industry. This whitepaper highlights the key aspects and features of each solution with the expectation that both solutions will

Apr 18, 2026 Hot

How does OSPF work?

This lesson explains how OSPF works. We have broken down the OSPF operation into five steps, which we discuss at a high level.

Jul 27, 2025 Hot

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

Apr 24, 2026 Hot

OSFP Technology: Revolutionizing High-Speed

OSFP technology is not just an incremental upgrade but a transformative leap in high-speed interconnectivity. For PCB enterprises,

Feb 04, 2026 Hot

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 for signal integrity performance and built

Jun 29, 2026 Hot

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

Nov 11, 2025 Hot

OSFP Connectors 2025: Design, QSFP-DD

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

Apr 24, 2026 Hot

Revolutionizing Aggregation and Compatibility with

Designed to seamlessly aggregate 100G LR1 to 400G ports and enhance network efficiency, our product serves as the vital link, closing

Jul 11, 2025 Hot

OSFP-SR8-800G Connectivity Guide | FS

FS OSFP-SR8-800G is designed to maximize the performance of HPC networks, requiring high-bandwidth, low-latency, highly reliable connections between InfiniBand or Ethernet elements.

Nov 28, 2025 Hot

Cisco SFP vs SFP+ vs QSFP-28 vs OSFP: Guide for ...

Learn the differences between Cisco SFP, SFP+, QSFP-28, and OSFP optical transceivers. Explore technical comparisons, deployment scenarios, and procurement guidance for enterprise and data

Dec 20, 2025 Hot

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 from the ground up for high-power, high-speed applications such as AI

Jan 12, 2026 Hot

Z9864F-ON Sec Sheet

The Dell PowerSwitch Z9864F-ON switch supports the open-source Open Network Install Environment (ONIE) for zero touch installation of Enterprise SONiC by Dell Technologies, as well as of alternative

Jun 05, 2026 Hot

QSFP-DD vs OSFP in 400G: A Field Case for Dense Fiber

A case study comparing QSFP-DD vs OSFP for 400G links, covering form-factor specs, selection criteria, deployment steps, measurable results, and troubleshooting.

Feb 25, 2026 Hot

TE Connectivity

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

May 03, 2026 Hot

### 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 DAC, AOC, ACC and optical

Nov 05, 2025 Hot

### OSFP Optical Module Support ICs · Solutions · Magnias

OSFP (Octal Small Form-factor Pluggable) is the dominant pluggable optical module form factor for AI-cluster and hyperscale switch interconnect. Each module needs a small but precise set of support

Feb 04, 2026 Hot

### OSFP Connectors & Cable Assemblies

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

Oct 14, 2025 Hot

### OSPF Area Types and Concept Explained

This tutorial explains the OSPF area concept and types in detail. Learn how OSPF uses areas to scale large networks.

Nov 24, 2025

## Contact Us

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