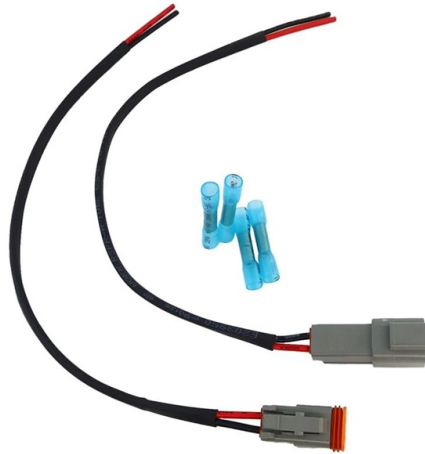


Ivory Coast Liquid-Cooled Switch OSFP



Article Overview

Liquid-cooled OSFP switches provide high-density, high-speed connectivity from 400G to 1.6T, optimized for thermal management in advanced data centers.

OSFP Overview

The OSFP (Octal Small Form-factor Pluggable) is a pluggable module designed for high-speed networking, supporting 400G, 800G, and 1.6T connections through eight high-speed electrical lanes . OSFP modules are slightly larger than QSFP-DD but allow up to 32 ports per 1U front panel, making them ideal for dense switch deployments in AI, HPC, and cloud data centers .

Liquid-Cooled Switch Technology

Liquid-cooled OSFP switches use direct-to-chip or cold plate cooling to manage the high thermal loads of modern ASICs and optical modules . Key features include:

- Direct-to-chip liquid cooling: Extracts heat directly from high-power switch ASICs, maintaining peak throughput without thermal throttling .
- Cold plate assemblies: Integrated top and bottom row cold plates efficiently dissipate heat across multiple ports, ensuring uniform thermal management .
- Floating cold plate designs: Self-aligning plates improve contact with uneven surfaces, eliminating hot spots and protecting delicate components .
- Compatibility with OSFP-RHS modules: Flat-top OSFP transceivers can be paired with liquid-cooled systems, enabling high-density deployments while maintaining thermal stability

Article Content

Apr 20, 2026

OSFP MSA Rev 5

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

Apr 03, 2026

Arista targets AI data centers with new liquid cooled pluggable optic ...

“All large AI data centers will be liquid cooled and the switches that go into these data centers also need to be liquid

Oct 02, 2025

Solving Cooling Interconnects for Next-Gen Data Centers and AI

Amphenol's liquid-cooled solution for front-panel pluggables is available for OSFP in a 1x8 ganged configuration and

Jun 11, 2026

1.6T OSFP RHS (Riding Heat Sink)/Flat-Top Optical Transceiver:

Conclusion As liquid cooling solutions are increasingly adopted in switches and large-scale computing clusters, OSFP

Jan 03, 2026

A Comprehensive Guide of the Thermal Design in OSFP Modules

This article covers the thermal structure, design, methods and benefits of 400G/800G/1.6T OSFP modules, explaining

Oct 17, 2025

OSFP-RHS 224G Cold Plate & Cage Assembly

I/O LIQUID COOLING/COLD PLATE Amphenol's innovative single-component design leverages engineering expertise to optimize

Jul 22, 2026

Welcome to OSFPmsa

A: The OSFP is a pluggable form factor with 8x high speed electrical lanes that support up to 400 Gbps (8x50G), 800 Gbps

Feb 04, 2026

Airport-grade Libyan liquid-cooled switch OSFP

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE Solving Cooling Interconnects for Next-Gen Data Liquid-Cooled

Aug 07, 2025

800G OSFP Liquid/Immersion Cooling Transceivers

100% sealed optical pathways! NADDOD 800G infiniband and ethernet liquid/immersion cooling transceivers are designed for

Sep 28, 2025

OSFP1600_and_OSFP-XD

OSFP-XD While the OSFP1600 supports future switch silicon with 200 Gb/s electrical lanes, there is broad interest in 1.6 Tb/s optics

Jun 14, 2026

800G OSFP Liquid Cooling Optical Transceiver Modules

AscentOptics" 800G OSFP optical transceivers with two-phase immersion cooling (2PIC) are fully compliant with the latest OSFP

Aug 31, 2025

Product Demo | OSFP 2x8 Belly to Belly Liquid Cooling Demonstration ...

Tech Demo Product Demo | OSFP 2x8 Belly to Belly Liquid Cooling Demonstration | DesignCon 2025 This demo from DesignCon

Nov 15, 2025

Thermal Optimizations for OSFP Optical Transceiver Modules

Heat dissipation and electric shielding techniques and apparatuses are disclosed to enable the operation of OSFP modules at higher

Apr 14, 2026

OSFP Thermal Solutions | Cofan Thermal

Cofan Air-Cooled OSFP Thermal Modules are engineered to meet the increasing thermal demands of next-gen AI servers and high

Dec 17, 2025

Product Demo | OSFP 2x8 Belly to Belly Liquid Cooling Demonstration ...

Our innovative one-piece design integrates the cage with top and bottom plates, less system complexity with efficient, reliable 1 in/1

Jun 10, 2026

Industry Developments: Cooling QSFP Optical Transceivers

Thermal Issues The small QSFP form factor has significantly increased the number of ports per package. The

Nov 13, 2025

OSFP 8x100G FR / DR8+ Liquid Cooling Module | AscentOptics

The OSFP 800G FR8+ immersion-cooled transceiver supports 2km 800G Ethernet links with 8x106.25Gbps PAM4 channels over

Jun 06, 2026

Industry First 1.6T Liquid Cooled Switch: QFX5250-64OE-L

The switch has 64 high-speed OSFP ports (ports 0-63) supporting interface speeds up to 1.6TbE, with flexible

Apr 19, 2026

=> Liquid Cooling for Optical Networking Equipment, Ciena, DC ...

OGAWA, Tadashi (@ogawa_tter). => Liquid Cooling for Optical Networking Equipment, Ciena, DC Sustainability,

Sep 18, 2025

Unlocking High-Performance Cooling with Amphenol's OSFP-RHS

With the OSFP-RHS 224G Cold Plate and Cage, Amphenol has developed a future-ready cooling solution that

Dec 10, 2025

Advanced Thermal Management Strategies | Molex

Thermal management plays a pivotal role in enhancing the reliability and efficiency of high-power pluggable optical modules. Explore

Jun 21, 2026

OSFP Thermal Solutions | Cofan Thermal

The result is a scalable, field-serviceable liquid cooling solution that aligns with modern data center requirements for modularity,

Contact Us

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