



Door-to-door transport of liquid-cooled OSFP switches

Stäubli Drives Next-Generation Liquid Cooling Standards for AI Data

The new Mini-QD technology enables the liquid cooling of next-generation optical pluggable modules such as OSFP and QSFP devices that are expected to reach up to 1.6 terabits

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

FS 1.6T OSFP closed-finned-top (OSFP-IHS) transceivers are compatible with NVIDIA Quantum-X800 air-cooled and liquid-cooled switches, and support breakout connectivity from a 1.6T

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NADDOD 1.6T Optical Transceiver Differences Analysis

Learn how to choose the right 1.6T optical transceiver. This guide compares six NADDOD 1.6T OSFP modules across protocol, cooling design, transmission reach, and connectors for AI and

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Product Demo , OSFP 2x8 Belly to Belly Liquid Cooling

Tech Demo Product Demo , OSFP 2x8 Belly to Belly Liquid Cooling Demonstration , DesignCon 2025 This demo from DesignCon 2025 highlights how we're

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400G QSFP-DD & OSFP Transceivers: SR8, LR4, DR4, DR4

400G QSFP-DD and OSFP Transceivers: Key Variants and Applications As cloud-scale



networks evolve, 400G transceivers have become a critical component in hyperscale data centers, AI clusters,

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US20210112683A1

In a further embodiment, the present disclosure includes an integrated liquid-cooling approach that is integrated into the body of a pluggable module. This approach provides improved

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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.

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OCP ACF Reference Design Guidance White Paper

As quantities of liquid cooled ITE increase, linking multiple liquid cooling/transportation loops may be recommended for optimum efficiency, performance and risk avoidance.

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800G OSFP Liquid Cooling Optical Transceiver Modules , AscentOptics

AscentOptics' 800G OSFP optical transceivers with two-phase immersion cooling (2PIC) are fully compliant with the latest OSFP MSA standards. The firmware supports CMIS 5.0 and later versions.

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From Airflow to Liquid Cooling: A Deep Dive into 800G

By selecting the right OSFP form factor based on cooling strategy (air vs. liquid) and



system layout, operators can maximize module performance,

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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 bandwidths. OSFP compatible techniques are

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1.6t 2xfr4 Ospf Optical Transceiver Compatible 1310nm 2km Dom

The dual far reach 8-channel (2x FR4) design uses 200G-PAM4 electrical and optical modulation based on the CWDM4 serial, multiplexed 1310nm wavelength grid. It is qualified for use in InfiniBand XDR

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Product Demo , OSFP 2x8 Belly to Belly Liquid Cooling

Highlights Product Demo , OSFP 2x8 Belly to Belly Liquid Cooling Demonstration , DesignCon 2025 This demo from DesignCon 2025 highlights how we're

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Choosing the Right OSFP: Balancing Performance and Thermal

Choosing the right OSFP package ensures: Maximum airflow utilization in air-cooled systems Efficient heat transfer in liquid-cooled or high-density setups Flexibility with mixed-use or future upgrades

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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

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

The OSFP standard marks a pivotal step toward scalable 400G and 800G optical networking, designed from the ground up for AI, cloud, and HPC infrastructures. With open MSA

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

Learn how they compare to QSFP-DD, their role in 400G/800G networks, signal integrity, thermal management, cable assemblies, and future trends.

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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 modules with the 100 Gb/s electrical lane ecosystem. The OSFP-XD

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XPO: Redefining Pluggable Optics for AI Networking

By combining a dual-paddle mechanical architecture, integrated liquid-cooling cold plate, clean linear electrical channel, and high-voltage power delivery, XPO dramatically increases optical density while

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Arista touts liquid cooling, optical tech to reduce power

Arista executives discuss liquid-cooled networking gear and support for Linear Pluggable



Optics to achieve power and cost optimization for AI data

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Exploring the Future of AI Networking: Liquid-Cooled Switches

Exploring the Future of AI Networking: Liquid-Cooled Switches on the Horizon Imagine a data center where even the most powerful switches run cool and stable-- without noise, thermal throttling, or

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Eoptolink Joins XPO MSA and Unveils Industry-First 12.8 Tbps Liquid

Offering an impressive throughput of 12.8 Tbps, the Eoptolink XPO features 64 lanes operating at 200 Gbps, achieving a record-breaking front-panel density of 204.8 Tbps within a compact 4-RU rack.

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Unlocking High-Performance Cooling with Amphenol's

Amphenol's OSFP-RHS Cold Plate and Cage Liquid Cooling Solution 224G delivers efficient liquid-cooled performance for high-speed networks. Read

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

QSFP-DD and OSFP port switches can be interconnected using QSFP-DD modules and OSFP finned-top modules. Beyond direct 400G-to-400G connections, interconnection between the

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Next-Gen AI Cooling by Stäubli at OCP



The new Mini-QD technology enables the liquid cooling of next-generation optical pluggable modules such as OSFP and QSFP devices that are

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ACS Liquid Cooling Cold Plate Requirements Document

Introduction This document outlines the requirements related to Liquid Cooling Cold Plate technology, which may be used in the Open Compute Project (OCP) environment. Liquid cooling technology is

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Exploring the Future of AI Networking: Liquid-Cooled Switches on the

Cisco is actively innovating indirect-to-chip liquid cooling for high-performance switches, laying the groundwork for solutions that will enable seamless and scalable AI at unprecedented

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Solving Cooling Interconnects for Next-Gen Data

Conventional air-cooled heat sinks are replaced with liquid-cooled cold plates, which directly contact the top surface of each pluggable module to

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VERTIV WHITE PAPER

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) conducted a detailed cost of ownership analysis of air-cooled data centers versus a hybrid model air- and liquid

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