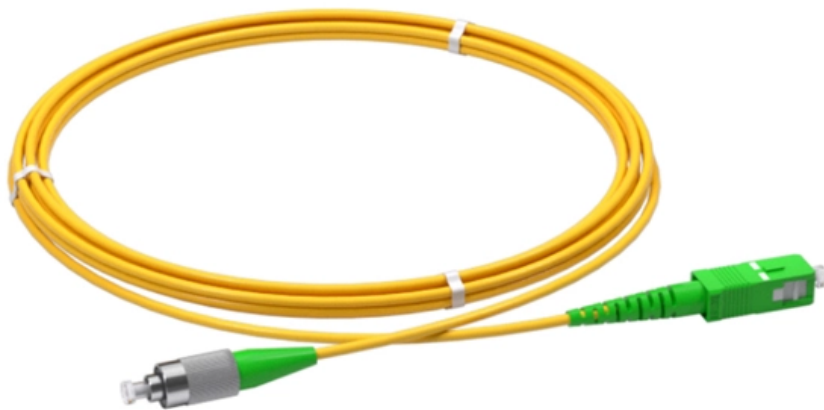


Door-to-door transport of liquid-cooled switch QSFP





Door-to-door transport of liquid-cooled switch QSFP



Air Cooling and Water Cooling for Data Center High-Speed I/O

Quad Small Form-factor Pluggable-Double Density (QSFP-DD) high-speed I/O interconnect system is the smallest form factor being able to support ultra-high data s

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

Imagine a data center where even the most powerful switches run cool and stable--without noise, thermal throttling, or energy waste. Cisco is actively innovating in directto-chip



QSFP-DD

QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for an eight lane electrical interface. It

Gigalight Liquid-Cooled Optics: A Thematic Study on

Gigalight's immersion liquid-cooling extenders and silicon photonics liquid-cooled optical modules represent the future of optical interconnects in data



2. Imported design is convenient for expansion.

The design of two inlets saves space and allows for rear line entry.

Technical Discussion: Designing Heat Sinks for Cooling

ATS heat sinks designed specifically for cooling QSFP optical transceivers. (Advanced Thermal Solutions, Inc.) JP: Was the difference in fin

QSFP-DD Power & Thermal Management Guide for Data Centers

Complete QSFP-DD power and thermal guide with module power data, rack calculations, AI cluster planning, and cooling strategies for 400G and 800G deployments.



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



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

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



Cisco Optical Transceiver Handling Guide

Handling Guidelines for QSFP-DD, QSFP, SFP Transceiver This guide describes the general handling measures and precautions when handling optical transceivers to ensure they can be handled with

GIGALIGHT Launches Immersion Liquid-Cooled Optical Extenders to

September 22, 2025, Shenzhen, China. - Since pioneering the industry's first immersion liquid-cooled optical module in July 2021, GIGALIGHT has successfully built a complete portfolio of liquid-cooled



QSFP-DD

Benefits The QSFP-DD family of modules allow development of switches with bandwidth to match the latest ASIC capacities while maintaining optimized port



Optimizing QSFP-DD Systems to Achieve at Least 25 Watt

Abstract High performance network environments need to cool pluggable optical modules efficiently. Higher power (25 Watt) modules for QSFP-DD800 systems must dissipate this heat effectively to

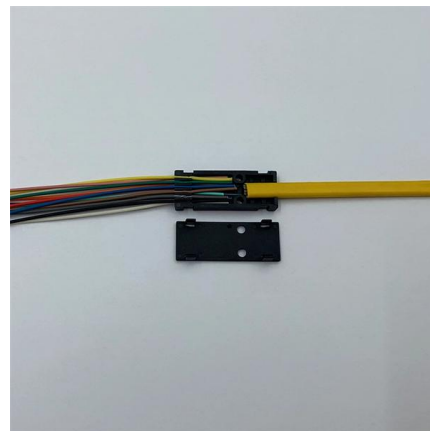


Stäubli Drives Next-Generation Liquid Cooling Standards for AI Data

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

QSFP-DD: Enabling 15 Watt Cooling Solutions

This provides advantages for cooling of the host switch chip because it maximizes the heat sink height. Challenges of the stacked design include signal integrity of the high speed traces to



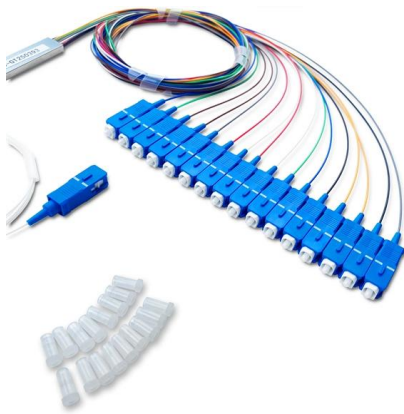
2023 QSFP-DD MSA Thermal Whitepaper Final (for approval)

As was the case for previous generations, the universally-adopted QSFP-DD family continues to extend its performance threshold, use cases, and backwards-compatibility. QSFP-DD1600 establishes a



Liquid Cooling

Global Switch was the first to bring liquid-cooled capacity to Hong Kong, delivering for the city's booming AI sector.



Immersion Liquid Cooling Optics - GIGALIGHT

GIGALIGHT provides 10G to 800G immersion liquid cooling direct attach cable (DAC) products for immersion liquid-cooled data centers, supporting various package types such as SFP+, SFP28,

U.S. Patent for Liquid cooling high-density pluggable modules for a

This enables significantly higher power plugs can be cooled through the elimination of a dry contact interface and employment of liquid cooling. In various embodiments, the present



Immersion Liquid Cooling Interconnect Solutions

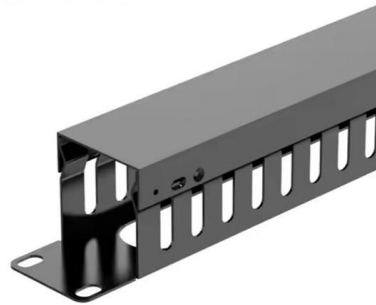
Superior Cooling Efficiency, Performance and Reliability GrowsFiber is perfect for the most demanding immersion liquid cooled data centers by testing each immersion

Liquid cooling high-density pluggable



modules for a network element

Further, with superior thermal properties of liquids, the space required for cooling can be minimized, which opens the door for more compact architectures, i.e., better than heat sinks and air cooling.



NEXT-GEN DATA CENTER INFRASTRUCTURE RAISES THERMAL

SFP-DD cage can receive two optical or electrical cable assemblies. An array of high-speed, high-density solutions revolving around various small form-factor pluggable modules, such as SFP, SFP+,

Liquid Cooling Solutions

Advanced Liquid Cooling Solution - Purpose-built thermal solutions for any cooling budget
Professionally designed, built, & tested to meet the most demanding server/storage/data center needs.



Cold Plate Cooling Investigation for High-Speed Electronic Interconnect

Fan cooling solution which was conventionally used for QSFP-DD is no longer adequate to meet the demanding thermal management requirements. In the current work, water-cooled cold

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



Fan Cooling Investigation for High-Speed Electronic

To characterize the thermal and fluid dynamic characteristics of axial fan cooling for QSFP-DD high-speed interconnect applications. To investigate the



Thermal Design of QSFP-DD Cages and Heatsinks

reference design focusing the thermal management of the QSFP-DD modules is needed. While Samtec is not in the business of designing and manufacturing QSFP-DD modules, we are in



Immersible Extender

It extends the electrical interface of the server to the surface, allowing 40G/100G/200G QSFP transceivers or AOCs to interconnect with QSFP-QSFP





QSFP-DD Connectors, Cages and Cable Assemblies

QSFP-DD provides high-performance computing capability. The QSFP interconnects density is doubled with electrical interface, providing superior thermal and signal



Advanced Thermal Management Strategies , Molex

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

Contact Us

For datasheets, pricing, or custom high-speed optical interconnect solutions, please visit:
<https://syropy.com.pl>