

Jamaica Liquid-Cooled Switch QSFP



Overview

Full support of DAC, AEC IMDD Optics and Coherent optics. The intrinsic flexibility available for cooling solutions with QSFP designs is its biggest advantage. The SN6000 series, based on the 102.4 Tb/s Spectrum-6 ASIC, is available in multiple configurations for high-performance L2/L3 forwarding across leaf, spine, and superspine deployments. The platforms deliver full wire-speed throughput, ultra-low latency, and 160 MB per ASIC of fully shared packet. GIGALIGHT provides the smart box tools for online coding of SFP, XFP, SFP+, QSFP+, and QSFP28 optics, as well as wavelength tuning for 10G tunable XFP/SFP+ optical transceivers. GIGALIGHT provides a series of BER testing tools (checker) for 10G SFP+, 25G/32GFC SFP28, 40G QSFP+, 100G QSFP28, 200G. QSFP-DD1600 establishes a roadmap for systems and pluggables to improve cooling capacity thanks to a wide array of thermal innovations. Superior cooling capacity notably enables faster speeds at the port level and can reduce overall system power consumption. This whitepaper offers comprehensive. But now, advanced applications such as artificial intelligence (AI) and machine learning are taking high data processing demands to the next level — and legacy cooling solutions for I/O modules may no longer be enough. High-performance data center and AI workloads are power-intensive, outpacing efficiency improvements in air-cooling technology. It is being developed by the QSFP-DD MSA as a key part of the industry's effort to enable high-speed solutions.



Article Content

NVIDIA Spectrum-6 SN6000 Ethernet Switch Systems Hardware User

The SN6600-LD is a fully liquid-cooled switch, featuring 64 RHS type OSFP cages supporting 128 ports of up to 800 Gb/s in a compact 2RU form factor. It provides 102.4 Tb/s of total throughput for scalable

Immersion Liquid Cooling Optics – GIGALIGHT

The GIGALIGHT 100G CFP to QSFP28 adapter, 100G CFP2 to QSFP28 adapter, and 40G QSFP+ to 10G SFP+ adapter provide a cost-effective solution for the upgrade of network.

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

This whitepaper offers comprehensive details of QSFP-DD1600 performance enhancements achieved by both module and system designers. Various analyses show the evolved cooling capabilities of 64

Thermal Management Solutions Report for I/O Modules

An example of this is the 1x6 QSFP-DD liquid cooling solution shown below. This solution features six independently moving pedestals which can compensate for

Solving Cooling Interconnects for Next-Gen Data Centers and AI

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

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

The future of pluggable modules at 1.6 Tb/s

Full support of DAC, AEC IMDD Optics and Coherent optics. The intrinsic flexibility available for cooling solutions with QSFP designs is its biggest advantage. Cage Independent and additive. Compatible

QSFP-DD Optical Transceivers for High-Speed Connections

This flexibility enables switch and routing designs that optimize airflow, network performance, and power and cooling efficiency. As a result, QSFP-DD ports can enable 400G and 800G modules to operate

Thermal Design of QSFP-DD Cages and Heatsinks

This paper will talk to factors in the QSFP-DD design that affect the thermal performance, the thermal design of modular reference 32 port 1U switch loosely based on the Facebook Wedge

Jamaica 3-Year Warranty Air-Cooled Switch QSFP

200GBASE-SR4 QSFP56 850nm 100m MMF Liquid/Immersion Compatible with a variety of mainstream cooling fluids. Provides connectivity solutions for 200G immersion cooling NICs to 200G air-cooled

High-Speed Hardware and Immersion Cooling Solutions | FIBERSTAMP

Immersion Cooling Extender Features Significant CAPEX savings for immersion liquid-cooling data centers Support 40G/100G/200G QSFP transceivers or AOC with QSFP-QSFP flat cage 30AWG

A QSFP module with liquid cooling function

The invention relates to a pluggable optical fiber communication module in a data center or a high-performance computer switch, in particular to a QSFP module with a liquid cooling and heat

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 cooling optical module in real liquid

Full-Scale Immersion Cooling of Optical Transceiver, PCBs

In this video from SuperComputing 2019, Arlon Martin and the Samtec Optical Group are demonstrating the latest developments in full-scale immersion cooling. Using Samtec Flyover ®

Juniper QFX Series Switches | HPE

Explore the Juniper QFX Series Switches portfolio QFX5250 High-performance liquid-cooled Ultra Ethernet Transport ready switch, built on Broadcom Tomahawk 6 with 102.4 Tbps bandwidth

Immersible Extender

A new standalone product, the Immersion Liquid Cooling Extender, is designed for immersion-cooled data centers. It extends the electrical interface of the server to

800G QSFP-DD immersion cooling extender

Immersion cooling extender can also be a important role in liquid immersion solution, existing normal QSFP -DD form transceiver/AOC can be adapted for immersion indirectly.

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

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