



**ZTP Thermal & Power**

# **Afghanistan Liquid-Cooled Switch QSFP-DD2025**





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### 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,

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### NVIDIA GB200 Supply Chain: The Global Ecosystem

The AWS blog emphasizes that their new P6e-GB200 machines have 72 GPUs linked by NVLink and can be liquid-cooled or air-cooled ( ) ( ). These cloud

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## **64-port 400G QSFP-DD 25.6T Ethernet 2U Switch for AI Data Center**

Leveraging 400G high-speed ports and non-blocking switching technology, it ensures high-bandwidth and low-latency transmission, adapting to high-load services. It is paired with mature optical module

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## **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 speed. Furthermore, the data speed of

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## **QSFP-DD CONNECTORS & CABLE ASSEMBLIES PRODUCT**

TE Connectivity's (TE) QSFP-DD (quad small form-factor pluggable double density) doubles the density of QSFP interconnects with an eight-lane electrical interface capable



of 28 Gbps NRZ or 56 Gbps

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## **800G OSFP/QSFP-DD: 229465 QA List**

It is engineered to support both airflow cooling and liquid-cooled environments, offering enhanced mechanical protection and thermal compatibility in high-density systems.

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## **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

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## **High-Speed Hardware and Immersion Cooling Solutions , FIBERSTAMP**

HIGH-SPEED INTERCONNECT HARDWARE AND LIQUID COOLING SOLUTIONS FOR DATA CENTER AND HPC Parallel and WDM DCI Solutions Elevate Data Center Connectivity

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## **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+,

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## **Immersion 400G QSFP-DD SR8 850nm 100m (328ft)**

FIBERSTAMP 400G QSFP-DD SR8 liquid-cooled optical module is designed for immersive data center 400GBASE-SR8 Ethernet links. It utilizes 50G PAM4 and



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## **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

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## **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.

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

6.3 System cooling feasibility study with 50W QSFP-DD1600 in a 64 port 2RU With all the thermal advancements and improvements identified for QSFP-DD1600, the whitepaper has focused on

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### Immersible Extender

Immersion Liquid Cooling Extender A new standalone product, the Immersion Liquid Cooling Extender, is designed for immersion-cooled data centers.

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### Immersible-400G

GIGALIGHT's 400G QSFP-DD/OSFP liquid cooling optical module is designed for use in submerged data center 400GBASE-SR8 Ethernet links. It adopts 50G

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## Connectors and Cages

800G finned-top, twin-port, 8-channel, 2x400G OSFP for Quantum-2 and Spectrum-4 SN5600 Ethernet air-cooled switches. 800G flat-top, twin-port, 8-channel, 2x400G OSFP for linking

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## Eoptolink

Eoptolink Demos IMDD 400G per Lambda Based 1.6 TDR4 Optical Transceiver Solution at OFC 2026 New Products Eoptolink Joins XPO MSA and Unveils Industry-First 12.8 Tbps Liquid-Cooled

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## Solving Cooling Interconnects for Next-Gen Data



High-performance data center and AI workloads are power-intensive, outpacing efficiency improvements in air-cooling technology. Power requirements

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## **The Ultimate Guide to QSFP Cage Connectors and**

Equally, the conventional help to protect server rooms from overheating by employing air-conditioning routines without wasting electricity by

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## **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

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## **Afghanistan Data Center Liquid Cooling Market (2025-2031)**

In line with global trends, the Afghanistan Data Center Liquid Cooling market is experiencing a surge in demand due to the rising need for efficient cooling solutions in data centers.

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## **QSFP-DD pluggable modules boost data density**

A single switch slot can support up to 36 QSFP-DD modules--providing up to 14.4 Tbps aggregate capacity. Thermal management

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## **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

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## **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

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

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

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