

# Join the liquid-cooled switch OSFP



## Overview

This demo from DesignCon 2025 highlights how we're simplifying high-density cooling. Our innovative one-piece design integrates the cage with top and bottom plates, less system complexity with efficient, reliable 1 in/1 out cold plate connections, enhanced total power capacity and an extended. The NVIDIA MMS4A20 is an 800Gb/s single-mode optical transceiver supporting the XDR 800Gb/s InfiniBand protocol. It is used to link the Quantum-X800 QM3x00 switches using Twin-port OSFP 2x800Gb/s transceivers to the dual 800Gb/s ConnectX-8 mezzanine card in liquid cooled system and ConnectX-8 PCIE. The installation of 800G OSFP modules without adequate thermal management leads to equipment overheating, network connections dropping, and decreased equipment operational time. The parallel single mode, datacenter reach 8-channel (2xDR4) design uses 100G-PAM4.

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Watch now to see how we're pushing the boundaries of cooling technology! This demo from DesignCon 2025 highlights how we're simplifying high-density cooling.



Amphenol's liquid-cooled solution for front-panel pluggables is available for OSFP in a 1x8 ganged configuration and QSFP-DD in a 2x8 ganged and stacked configuration, enabling ...



The main application for MMA4Z00-NS is linking two switches together with up to 50-meter transceivers (marked blue). A flat-top version offered for liquid-cooled and DGX H100 Cedar7 ...



800G flat-top, twin-port, 8-channel, 2x400G OSFP for linking DGX H100 Cedar7 GPU links which use internal cage riding, air-cooled, heat sinks for liquid-cooled systems.



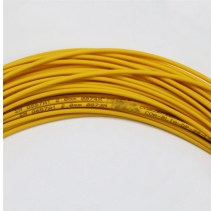
The result is a scalable, field-serviceable liquid cooling solution that aligns with modern data center requirements for modularity, uptime, and thermal headroom.



It is used to link the Quantum-X800 QM3x00 switches using Twin-port OSFP 2x800Gb/s transceivers to the dual 800Gb/s ConnectX-8 mezzanine card in liquid cooled system and ConnectX ...



Two OSFP-based switches can be linked together at 800G (2x400G) using two Twin port OSFP transceivers and two straight, multimode fiber cables (MFP7E10-Nxxx) up to 50-meters.



The OSFP modules establish connections between different regions through their two types of flat-top (RHS) and finned-top (IHS) modules, which link liquid-cooled servers to air-cooled ...



With its high thermal dissipation capability and flexible mechanical design, OSFP packaging supports different cooling methods and system integration requirements.



The main application for MMS4X00-NS is linking two switches together with up to 100/500-meters. 100-meter transceivers have a white stripe, and the 500-meter transceivers have purple ...

## Contact Us

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