

Swedish Liquid-Cooled Switch OSFP



Overview

OSFP (Octal Small Form-factor Pluggable) is a pluggable optical module form factor standard designed for 400G, 800G, and future 1. Compared with QSFP-DD, OSFP allows taller module height, a larger top cooling area, and higher module power support. This article will explain the differences between the two designs to help users choose the appropriate product. Figure 1: Side View Comparison of OSFP-IHS vs OSFP-RHS What Is OSFP-IHS (Integrated Heat Sink)?

OSFP-IHS is the standard and most widely deployed OSFP thermal solution. In this design, the heat. As a result, OSFP gradually developed two distinct thermal structures: IHS (Integrated Heat Sink) and RHS (Riding Heat Sink). This whitepaper highlights the key aspects and features of each solution with the expectation that both solutions will have a place in future data center applications. 6Tbps, helping data centers meet AI-driven capacity demands with minimal. EXTREMEPORT™ OSFP CONNECTOR AND CAGE SYSTEMS SUPPORTING 56G, 112G & 224G Amphenol's ExtremePort™ OSFP connector and cage family delivers a scalable, high-performance interconnect platform

designed for next-generation data centers, high-density switch/router systems, and high-speed serial.

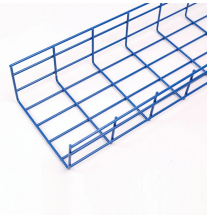
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Designed for air-cooled switches, especially traditional rack-mounted Ethernet switches. Improves cooling efficiency in airflow channels, ensuring stable operation.



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



Switches in this type of environment usually use standard OSFP cages and rely on front-to-back airflow for cooling. IHS modules have their own cooling structure, which reduces dependence ...



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 modules for high-density switch applications.



Compare OSFP-IHS and OSFP-RHS thermal designs for 800G and 1.6T optical modules. Learn how to choose the right OSFP solution for air-cooled, liquid-cooled, and AI data center ...



Amphenol's OSFP base series supports high-speed transmission with 60 contacts per port, eight high-speed channels, and a ground-supported SI structure. Optimized for 1U systems, it ...



The OSFP MSA is proud to introduce OSFP1600 and OSFP-XD to the industry. This whitepaper highlights the key aspects and features of each solution with the expectation that both solutions will ...



This article covers the thermal structure, design, methods and benefits of 400G/800G/1.6T OSFP modules, explaining how effective cooling ensures stable signal transmission and long-term ...



This article introduces two thermal designs for OSFP IHS and OSFP RHS optical modules, explaining their main differences in structure, heat dissipation methods, and system integration.



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Because cooling is largely self-contained, OSFP-IHS modules are well suited to platforms where switch or router airflow is predictable and well characterized. This approach also ...

Contact Us

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