

Imported air-cooled switch OSFP



Overview

In this article, you will find the complete 2026 cross-vendor reference for OSFP compatible switches, including specific models, OSFP variant requirements (IHS, RHS, XD, twin-port vs single-port), port density, breakout capabilities, and a practical selection. In this article, you will find the complete 2026 cross-vendor reference for OSFP compatible switches, including specific models, OSFP variant requirements (IHS, RHS, XD, twin-port vs single-port), port density, breakout capabilities, and a practical selection. In April 2026, a procurement engineer at a North American hyperscaler placed an order for 800 OSFP transceivers, only to discover three weeks later that the destination switches required the OSFP-RHS variant rather than the standard OSFP-IHS form she had ordered. Three weeks of project delay. Cofan's air-cooled OSFP thermal modules are engineered to meet the growing thermal demands of next-generation AI servers and high-speed telecommunications infrastructure. Designed specifically for OSFP (Octal Small Form-Factor Pluggable) applications, these modules leverage advanced aluminum heat. This article covers the thermal structure, design, methods and benefits of 400G/800G/1. The thermal structure of an high-speed OSFP module is not defined by heat sinks alone. It primarily. HPE Juniper Networking has started shipping the industry's first 102.4 Tbps data center switch, featuring 64 x 1. AITAF provides end-to-end optical communication solutions, structured cabling, ODN, optical. NADDOD OSFP-1.



Article Content

Thermal Optimizations for OSFP Optical Transceiver Modules

Heat dissipation and electric shielding techniques and apparatuses are disclosed to enable the operation of OSFP modules at higher bandwidths. OSFP compatible techniques are discussed including the

Choosing the Right OSFP: Balancing Performance and

The DGX rack uses liquid cooling internally, while switches remain air-cooled—requiring a Finned-to-Flat configuration to bridge different thermal

NVIDIA Quantum-X800 XDR InfiniBand Switch, Q3400

It features 144 ports at 800Gb/s distributed across 72 Octal Small Form-Factor Pluggable (OSFP) cages. The switch's high radix supports a two-level fat-tree

OSFP MSA Rev 5

An OSFP/OSFP800 or OSFP1600 module (see section 3, section 4 and section 11) includes an air-cooled integrated heatsink (IHS) with a closed top (see section 3.3) or an open top (see section 3.4),

The Thermal Structure Design of OSFP Optical

This article analyzes the thermal design of OSFP modules, compares three cooling solutions, explains key technologies for managing high power consumption and

From Airflow to Liquid Cooling: A Deep Dive into 800G

The OSFP (Octal Small Form Factor Pluggable) has become one of the most widely adopted pluggable form factors for 800G optical modules in high

OSFP Compatible Switches: 2026 Vendor Guide for

OSFP compatible switches now ship from major networking vendors—Cisco, Arista, Juniper, and NVIDIA—each with different naming

Inquiry about OSFP air-cooled switches

OSFP Thermal Management: Complete Data Center Cooling Guide Choosing the Right OSFP: Balancing Performance and Thermal OSFP-IHS vs. OSFP-RHS: Choosing the Right Thermal

MMA4Z00-NS 800Gb/s Twin-port OSFP, 2x400Gb/s Multimode SR8,

Both switches use the same Twin port, 2x400G OSFP plugs for transceivers, copper DACs and ACCs, and are only used in Quantum-2 and Spectrum-4 OSFP air-cooled switches. Twin-port devices

NVIDIA/Mellanox MMS4A00-XM/MMS4C10-XM (980

Built-in Broadcom 3nm DSP (Sian3 BCM83628) Fully validated for interoperability with NVIDIA Quantum-X800 air-cooled switches Compatible with NVIDIA DGX

Finned-Top vs Flat-Top OSFP Transceivers Explained

Discover the differences between finned-top and flat-top OSFP optical transceivers. Learn which design suits 400G vs 800G applications and cooling needs.

OSFP-IHS vs. OSFP-RHS: Choosing the Right Thermal

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

Beyond Air Cooling Limits: OSFP-RHS Optical Modules and the

Liquid cooling is now standard in AI data centers. HaloWill explains the advantage of OSFP-RHS flat-top optical modules in liquid-cooled architectures, helping you tackle the thermal

Industry First 1.6T Liquid Cooled Switch: QFX5250-64OE-L

The switch has 64 high-speed OSFP ports (ports 0-63) supporting interface speeds up to 1.6TbE, with flexible channelization options to operate at 800GbE, 400GbE, 200GbE, or 100GbE,

Finned-top and Flat-top Design in 400G/800G Optical

In the 800G OSFP series, SR8, DR8, and FR8 optical transceivers use a finned-top design (though there is an SR8 and DR8 variant used for

OSFP vs QSFP-DD Comparison | 800G Optical Module Form Factors

Detailed analysis of OSFP and QSFP-DD form factors for 800G optical modules. Compare specifications, thermal management, backward compatibility, and choose the right solution

ConnectX-8 SuperNIC: Should You Use OSFP IHS or

IHS modules integrate their own heatsink and are ideal for traditional air-cooled switches and general-purpose infrastructures. In contrast, RHS

OSFP IHS (Integrated Heat Sink) vs OSFP RHS (Riding

Learn the differences between OSFP IHS (Integrated Heat Sink) and OSFP RHS (Riding Heat Sink) transceivers, including thermal design, cooling

OSFP Thermal Form Factors Explained: Finned Top, Closed Top

Finned Top OSFP-IHS works well in traditional air-cooled switches with strong, uniform airflow. Closed Top OSFP-IHS is preferred in high-density switches where airflow control and

OSFP Connector System

OSFP connectors from Molex provide a standardized interface that allows installers to choose the I/O technology that best fits their needs. These connectors

A Comprehensive Guide of the Thermal Design in OSFP Modules

Combining the thermal characteristics of both finned-top and flat-top designs, it is suitable for air-cooled switches, liquid-cooling systems, or environments where dust protection is required.

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OSFP Thermal Solutions | Cofan Thermal

Cofan's air-cooled OSFP thermal modules are engineered to meet the growing thermal demands of next-generation AI servers and high-speed telecommunications infrastructure.

Welcome to OSFPmsa

A: No, due to mechanical and electrical differences, OSFP modules are not compatible with OSFP-XD ports, and vice-versa. Mechanical keying features on

Contact Us

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