Syropy AI Connectivity

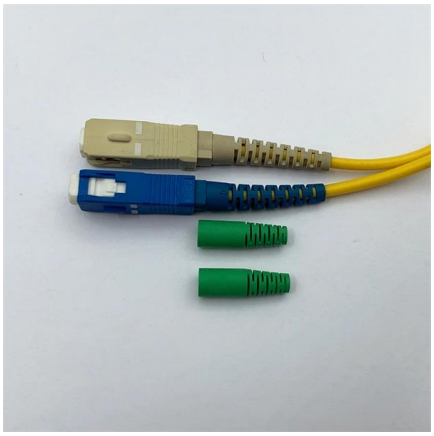
Guatemalan Air-Cooled Switch OSFP

Overview

The switches use Twin port OSFP cages supporting two transceiver engines in a single OSFP form-factor plug creating 800Gb/s electrical to the switch and 2x400G optics using two MPO/-12/APC optical connectors. 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. High-speed transmission causes significant heat, which can degrade performance, increase errors, and shorten lifespan if not properly managed. This article covers the thermal structure, design, methods and benefits of 400G/800G/1. The line rate is 400Gb/s for both 400GbE Ethernet and NDR InfiniBand based on the 100G-PAM4 modulation. 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. The OSFP (Octal Small Form Factor Pluggable) has become one of the most widely adopted pluggable form factors for 800G optical modules in high-performance computing (HPC), artificial intelligence (AI) clusters, and data center switches.

Guatemalan Air-Cooled Switch OSFP



MQM9790-NS2F, NVIDIA® 32 800G OSFP InfiniBand

This switch use connector cages that house two 400Gb/s ports in a single cage called 2x400G (800G) twin-port OSFP and are used exclusively in these air

OSFP & Switch,Hongfuhan Technology Co., Ltd.

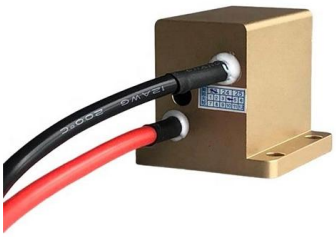
OSFP & Switch, Company Profile: Thermal Management Leader for Data Center Switches & Optical Modules We are a specialized thermal solutions provider focused on the critical cooling demands of

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

If your system is a traditional air-cooled switch and you do not plan to upgrade to liquid cooling in the near future: Choose OSFP-IHS. It offers plug-and-play simplicity, flexible deployment,

Understanding 400G and 800G OSFP Transceiver: Finned-Top vs.

Discover the key features of finned-top and flat-top 400G/800G OSFP transceivers and learn how to choose the right one for your network needs.



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.

OSFP , High Speed Interconnects , Amphenol

EXTREMEPORT(TM) OSFP CONNECTOR AND CAGE SYSTEMS SUPPORTING 56G, 112G & 224G Amphenol's ExtremePort(TM) OSFP connector

OSFP Thermal Management: Complete Data Center Cooling Guide

Data center teams frequently miscalculate their cooling needs because they focus on switch expenses instead of understanding the thermal systems required for operational support. The

OSFP Connectors 2025: Design, QSFP-DD

OSFP Connectors Explained: Design, Signal Integrity, Thermal Management, and QSFP-DD Comparison By Network Switches Sep 24 0 comments

Choosing the Right OSFP: Balancing Performance and Thermal

Ideal for air-cooled OSFP switches, such as standard Ethernet switches relying on chassis fan airflow for cooling. Suited for hybrid cooling setups, like NVIDIA DGX H100 Cedar systems connecting to air

Cisco OSFP 800G Transceiver Modules Data Sheet

Product overview The Cisco® OSFP 800G transceiver modules provide 800 Gigabit Ethernet (GE), 2x 400GE, 4x 200GE, and 8x 100GE connectivity options, complying with the Octal Small Form Factor

TE Connectivity

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

OSFP & Switch,Hongfuhan Technology Co.,

Ltd.

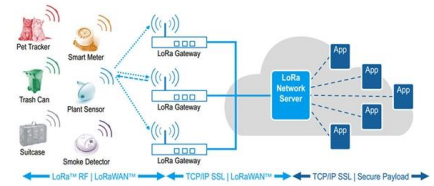
With deep expertise in both air-cooling and cold plate liquid cooling technologies, we partner with leading equipment manufacturers to develop advanced, reliable thermal management systems for

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),

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.



QSFP-DD vs OSFP: Which 400G/800G Form Factor

Compare QSFP-DD and OSFP. Learn about size, compatibility, cooling, density, and use cases. Includes comparison tables, deployment advice,

OSFP-XD, OCTAL SMALL FORM FACTOR eXtra Dense

An OSFP-XD-RHS cage has a lower height than an OSFP-XD cage and makes use of a riding heat sink for cooling. The forward stop feature in an OSFP-XD-RHS cage is shifted compared with an OSFP

OSFP Connectors 2025: Design, QSFP-DD

While QSFP-DD remains common, the OSFP (Octal Small Form-Factor Pluggable) has emerged as a strong contender, designed from the ground

OSFP-XD MSA Rev 1.1

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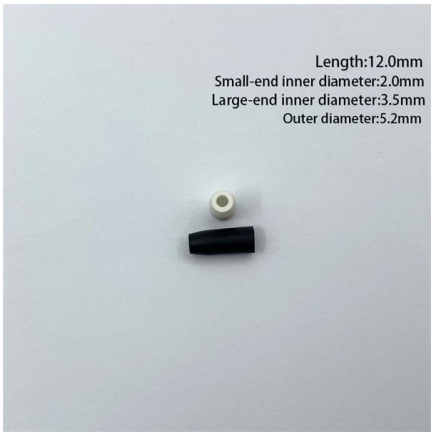

OSFP IHS vs OSFP RHS: Thermal Design and Key

In the OSFP standard, IHS and RHS represent two different heat dissipation paths, which differ significantly in structural design, thermal

OSFP Connector Guide: 400G and 800G Modules,

OSFP Connector Explained: Features and Benefits for 400G 800G Networks OSFP (Octal Small Form-factor Pluggable) is the high-density, hot

OSFP Connectors 2025: Design, QSFP-DD Comparison, and

While QSFP-DD remains common, the OSFP (Octal Small Form-Factor Pluggable) has emerged as a strong contender, designed from the ground up for high-power, high-speed applications such as AI

Understanding OSFP: The Future of Transceivers in

Explore the OSFP transceiver: a high-speed, future-ready solution for data centers. Learn its advantages in bandwidth, thermal performance, and signal integrity.

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

OSFP Transceivers: High-Density, High-Speed Connectivity from

It maintains excellent thermal performance, compatible with both air-cooled switches and liquid cooling systems. The added cover also provides better EMI shielding, optimized airflow,

Unlocking High-Performance Cooling with Amphenol's

Amphenol's OSFP-RHS Cold Plate and Cage Liquid Cooling Solution 224G delivers efficient liquid-cooled performance for high-speed networks. Read

ExtremePort(TM) OSFP-XD 112G Connectors , High

EXTREMEPORT(TM) OSFP-XD 112G INTERCONNECT SYSTEM Amphenol's ExtremePort(TM) OSFP-XD 112G interconnect system is comprised of

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

The transceiver firmware supports both InfiniBand and Ethernet and is automatically enabled based on the switch protocol. The Quantum-2 and

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

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

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

Overview

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

Contact Us

For datasheets, pricing, or custom high-speed optical interconnect solutions, please visit:
https://www.syropy.com.pl