

Fin optical module



Overview

A finned-top OSFP module has an integrated heat sink (metal fins) built into the top of the transceiver caging. These fins increase surface area and improve heat dissipation. When browsing and searching for OSFP optical transceivers you might have come across two types: finned and flat-top. Two different housing versions for two different use cases, so which to choose?

In this article we will explain what each of the versions are, how do they differ and which to choose. This article provides a comprehensive guide to understanding the differences between these two designs, their technical specifications, application scenarios, and future trends in optical networking. Understanding Finned-Top and Flat-Top OSFP Transceivers Finned-Top OSFP: Features a heat sink. These modules support high-bandwidth demands while ensuring reliable performance in dense environments. Increase your network capacity without overbuilding with Harmonic's Fin 10G SFP+ Based OLT module. You can deploy Fin with Harmonic's Jetty 60G-Capable Remote Switch or Pebble R-PHY device for simple plug-and-play 10G. OSFP (Octal Small Form-factor Pluggable), as a mainstream high-speed packaging format, offers two main thermal solutions: OSFP IHS (Integrated Heat Sink) and OSFP RHS (Riding Heat Sink). The form factor allows for both room inside the module for components, but also cooling optics that can commonly span from 10-15W for lower-power OSFP optics to over 30W for higher power devices.

Article Content

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

Finned top and flat top designs refer to different ways of thermal design of optical modules. This will directly affect the transmission stability and

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

The finned-top design supports modules like the 400G and 800G OSFP transceivers, offering higher operational efficiency in large-scale data centers and AI-driven applications. 2. Flat

Finned-Top vs Flat-Top OSFP: How to Choose for

In the field of high-speed optical modules, the finned-top (with heat sinks) and flat-top designs are two key thermal solutions for OSFP packaged

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

Finned top refers to the top of the optical module with a fin-like structure. This design can improve heat dissipation, usually used in high-power

OSFP IHS vs OSFP RHS: Thermal Design and Key

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

Finned-Top vs Flat-Top OSFP Transceivers Explained | EDGE Optical

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

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The Three Structural Types of OSFP Modules

The Octal Small Form Factor Pluggable (OSFP) module, widely adopted for high-speed optical interconnects, is available in three primary structural forms that

OSFP Thermal Form Factors Explained: Finned Top, Closed Top

OSFP-IHS modules integrate a metal heat sink directly onto the top of the optical module. The total module height is typically around 13 mm, and thermal performance depends on

Global AI Optical Transceiver Market to Reach US\$26 Billion in 2026 ...

TrendForce's latest research indicates that the global market for AI-focused optical transceivers has entered a phase of rapid growth, with market size projected to expand from

Sivers Semiconductors Collaborates With Jabil on Energy Efficient

Through this collaboration, Jabil plans to develop a 1.6T linear receive optical (LRO) transceiver module using Sivers' high-performance Distributed Feedback (DFB) lasers. The new

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10G SFP+ OLT Module | Access Network | DAA | Harmonic

You can deploy one or multiple Fin OLT modules into Harmonic's remote switch or DAA device to gain network agility and the elasticity you need to scale. Quickly

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In addition to independent devices such as switches and routers, optical modules can also work on network adapters (commonly known as network cards). For optical modules used on

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OSFP Finned and Flat Top The 400G and 800G

The OSFP Finned Top modules, including optics and DACs have large fins included in the modules that help dissipate heat. Commonly, the Finned

OSFP Finned and Flat Top The 400G and 800G

As a result, the OSFP modules can come with their own cooling, which is commonly referred to as a finned top. Marvell Teralynx 10 400G OSFP

Broadcom Sian3 and Sian2M: 200G/lane optical

Analyzing Broadcom's Sian3 and Sian2M 200G/lane DSP technologies. Sian3 (3nm/SMF) and Sian2M (5nm/MMF) support 800G and 1.6T

Finned-Top vs Flat-Top OSFP Transceivers: Choosing the Right

Discover the key differences between finned-top and flat-top OSFP transceivers. Learn how to choose the right 400G/800G module for AI, cloud, and data center networks.

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

Finned-top and flat-top designs are two different structural designs used in optical transceiver modules. While both share identical internal structures, the finned-top variant is taller due

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