The function of the heatsink for the optical module

The Closed Top Heatsink design integrates a solid heatsink on its upper surface, ensuring mechanical rigidity and reliable EMI shielding, with airflow moving along the length of the module.

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 ...

In air-cooled systems, airflow directly above the optical modules and strategic thermal optimization of the module heatsink -- whether it is a riding heatsink on top of a flat top module (QSFP-DD) or an ...

OSFP modules utilize three main heatsink types: closed top for standard power and EMI protection, finned top (open) for enhanced airflow in high-power scenarios, and riding heatsinks ...

Heat sinks help move heat away from hot parts like lasers and chips. This keeps the temperature low and stops damage. Using a heat sink helps the module last longer and work better. Most heat sinks ...

Optical Transceivers such as OSFP modules are now very difficult to cool with traditional heatsinks. Transceiver heat sinks are usually a solid conductive material, such as aluminum or ...

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

At the core of these modules are optical transceiver chips, such as Photonic Integrated Circuits (PICs) and Digital Signal Processors (DSPs). These chips operate at high frequencies, ...

This article explains contemporary thermal strategies for OSFP modules -- from fin geometry tuning to detachable heatsink covers -- and maps measured performance to practical ...

To accommodate both high-power optical and dense copper solutions, the specification will define separate but compatible heatsink specifications for both optical and copper modules, allowing ...

Traditional cooling methods that rely on airflow switching are becoming insufficient for high-power modules. As a result, OSFP gradually developed two distinct thermal structures: IHS ...

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