

# Optical Port Module Interface Categories



## Overview

Common optical module types such as SFP, GBIC, XFP, and XENPAK, along with optical interfaces like FC, SC, and LC, each have their unique characteristics that make them suitable for specific application scenarios. Published: 2026 | Category: Network Hardware Knowledge Base / Optical Communications Core Keywords: SFP Module, SFP Transceiver, Small Form Factor Pluggable, What is SFP, SFP vs SFP+ Read Time: Approx. 25 Minutes Even in the era of Wi-Fi 7 and 5G, Optical Transceivers remain the backbone of the. Switch optical modules, which convert electrical signals to optical signals and vice - versa, and optical interfaces, which serve as the physical connection points, play a pivotal role in determining the speed, distance, and reliability of data transmission. This connector landscape reflects how modern SFP deployments prioritize port density and. An electrical port module, also known as an optical-to-electrical port converter module, is a hot-swappable device with an SFP form factor. It features an RJ45 connector and uses UTP cables as the transmission medium. Since Ethernet transmission over UTP cables is generally limited to distances of. QSFP28 (Quad Small Form-factor Pluggable 28) Optical Module: Interface package size identical to QSFP+,

supporting both 100G QSFP28 and 40G QSFP+ optical modules. There are many types of optical modules, and there are several standard ways to categorize them, such as according to different package forms, different.

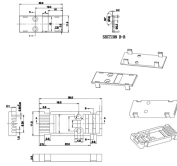




Explore the classification of optical modules based on transmission rate, package type, mode, central wavelength, and color. Learn about common causes of optical module failure and protective measures.



Optical modules commonly used in Ethernet switches include SFP, GBIC, XFP, and XENPAK.



Explore the classification of optical modules based on transmission rate, package ...



This guide dives into the key SFP Optical Module Specifications that engineers, network architects, and procurement professionals rely on when evaluating optical transceivers.



Interfaces: Electrical port modules use RJ45 interfaces, whereas optical port modules mainly adopt duplex LC interfaces, with simplex LC and MTP/MPO interfaces also available.



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