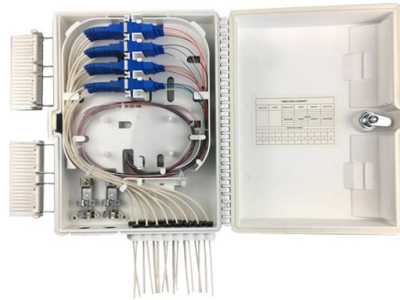


Optical module speed drops by 100Mbps



AI Overview

A drop in optical module speed by 100Mbps is often caused by SFP compatibility issues, fixed-speed modules, or fiber/port misconfigurations.

Common Causes

1. Fixed-Speed SFP Modules Many SFP optical modules have a fixed speed and do not auto-negotiate. For example, a 1000Base SFP module cannot operate at 100Mbps; it is designed only for 1Gbps links. If a network device attempts to connect at a lower speed, the link may fail or drop to a slower rate due to incompatibility . 2. SFP and Port Compatibility Plugging an SFP module into an incompatible port, such as an SFP+ port, can lock the speed at 1Gbps or prevent the link from establishing. Similarly, mismatched wavelengths (e.g., 1310nm vs 850nm) or using single-mode vs multi-mode fiber incorrectly can reduce link performance . 3. Fiber and Connector Issues Contaminated, scratched, or poor-quality fiber cables can reduce received optical power, causing the module to operate below its intended speed. Dust, dirt, or improper cleaning of fiber connectors can lead to signal degradation and link instability . 4. Environmental Factors Excessive temperature, humidity, or poor airflow can degrade the optical transceiver's laser or optics, leading to reduced speed or intermittent connectivity . 5. Configuration and Media Type Incorrect interface settings, such as mismatched speed or duplex parameters, or using media converters without proper configuration, can also cause a 100Mbps drop. Some Fast Ethernet media converters require auto-negotiation to be enabled and LFP (Link Fault Pass-through) to be disabled for proper operation .

Troubleshooting Steps...

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The speed for SFP module cannot be changed. However, per the 100M SFP Transceiver Compatibility Document ([link](#))

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The optical power meter usually reads in dBm for power measurements or dB with respect to a user-set reference value for loss.

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100g light module characteristics and application

A 100G optical module is a high-speed optical transceiver that is capable of transmitting data at a rate of 100 gigabits

Contact Us

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