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Switch equipped with 10G optical module



Overview

TRENDnet''s 12-Port 10G SFP+ switch features ultra-fast link speeds & advanced layer 2 management features.

Key Takeaways

Yes, the switch supports 10G optical modules via SFP+ ports, enabling high-speed fiber connectivity.Overview of 10G SFP+ Support

A 10G SFP+ switch is equipped with SFP+ ports that can handle data rates up to 10 Gbps. These ports allow the use of hot-pluggable 10G optical modules, which convert electrical signals to optical signals for high-speed fiber transmission, making them ideal for data centers, enterprise networks, and high-performance server connections (FASTCABLING) .

Types of 10G Optical Modules

The switch can accommodate various 10G SFP+ modules depending on your network requirements:

• Short-Range (SR): Uses multimode fiber at 850nm, suitable for distances up to 300m on OM3 fiber or 400m on OM4 fiber, ideal for intra-data center links (L-P.com) .

• Long-Range (LR): Uses single-mode fiber at 1310nm, supporting distances up to 10 km, suitable for campus or inter-building connections (Getek) .

• Extended Range (ER): Uses single-mode fiber at 1550nm, designed for very long distances up to 40 km (FASTCABLING) .

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• Bi-Directional (BiDi): Uses different wavelengths for transmit and receive over a single fiber strand, supporting up to 10 km (FASTCABLING) .
Compatibility and Flexibility

Most 10G SFP+ switches are backward compatible with 1G SFP modules, allowing legacy devices to connect at 1 Gbps if needed. However, a 1G SFP port cannot support a 10G SFP+ module, so the switch must have dedicated 10G SFP+ ports for full 10Gbps operation (Getek) .

Benefits of Using 10G Optical Modules
• High-speed data transfer: Up to 10 Gbps, reducing network bottlenecks.

• Hot-swappable: Modules can be added or replaced without powering down the switch (D-Link) .

• Flexible deployment: Supports short-range, long-range, and bi-directional fiber connections.

• Scalable network design: Ideal for data centers, enterprise wiring closets, and service provider networks (D-Link) . In summary, if your switch has SFP+ ports, it fully supports 10G optical modules, including SR, LR, ER, and BiDi types, providing high-speed, flexible, and scalable fiber connectivity for modern network environments.

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