

Does the firewall support SC optical modules



AI Overview

Most modern firewalls do not support SC optical modules; they typically require LC-type SFP or SFP+ transceivers. Connector Type Compatibility

Firewalls from major vendors such as SonicWall, Palo Alto Networks, and Sophos primarily support LC-type fiber connectors for both 1 gigabit and 10 gigabit fiber interfaces. SC optical modules, which use a larger connector form factor, are generally not supported on these devices. This is because the SFP and SFP+ ports on firewalls are designed for pluggable LC transceivers, and SC modules are physically incompatible with these slots.

Vendor-Specific Notes

- SonicWall: Supports a range of 3rd-party SFP and SFP+ modules, but all listed fiber transceivers use LC connectors.
- Palo Alto Networks: Their firewalls support 1G and 10G fiber transceivers, specifying LC-type connectors for both short-range (SX/SR) and long-range (LX/LR) modules.
- Sophos: Tested SFP and SFP+ transceivers for SG, XG, and XGS series firewalls also use LC connectors. SC modules are not included in the supported list.

Practical Implications

If you have existing SC fiber cabling, you would need either:

- Media converters to convert SC to LC connections, or
- Replace the SC transceivers and patch cables with LC-compatible modules to connect directly to the firewall.

Using unsupported SC modules may result in link failure, negotiation issues, or hardware incompatibility.

Conclusion

SC optical modules are not supported on most modern firewalls. To ensure proper operation, use LC-type SFP or SFP+ transceivers as specified by the firewall vendor.

Article Content

Pluggable Optical Modules: Transceivers for the Cisco

Cisco offers a comprehensive range of pluggable optical modules for the Cisco ONS family of multiservice platforms. The wide variety of modules

Key Specifications for Palo Alto Networks Fiber Transceivers

Palo Alto Networks' family of next-generation firewalls support a mix of fixed form factor and pluggable interface options including 1 gigabit Ethernet (Copper), 1 gigabit fiber and 10 gigabit fiber.

Key Specifications for Palo Alto Networks Interfaces and

Each interface definition is supported by specifications and agreements defining the electromechanical coupling, electrical and optical

Supported SonicWall and 3rd party SFP and SFP

The following table provides a list of supported 3rd party SFP and SFP+ modules that can be used with SonicWall firewalls. NOTE: "X" =

Key Specifications for Palo Alto Networks Interfaces and Transceivers

Fiber optic transceiver implementations are based on either multimode fiber (MMF) or single-mode fiber (SMF). It is critical to use a transceiver matched to the fiber deployed in the facility.

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Compatibility Matrix

Top Matrixes GlobalProtect App NGFW Support by OS User-ID Agent Prisma Access & Panorama Version VM-Series Firewalls Panorama Plugins

Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your network.

Fortinet Transceivers Data Sheet

Take the Guesswork Out of Selecting Transceivers Common connectivity problems in enterprise and data center networks are often traced back to low-quality and incompatible transceiver modules,

Key Specifications for Palo Alto Networks Interfaces and Transceivers

Key Specifications for Palo Alto Networks Interfaces and Transceivers The data interfaces implemented by Palo Alto Networks are based on industry standards and implementation agreements primarily

Understanding Pluggable Optical Modules

The transmit power of a long-distance optical module is often larger than its overload power. Therefore, when using such optical modules, select optical fibers of an appropriate length to ensure that the

Cisco SFP: Unlocking the Power of Optical Transceiver

A Cisco SFP (Small Form-Factor Pluggable) module is a small, hot-swappable network transceiver that provides flexibility at the interface level for

Understanding Pluggable Optical Modules

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single-mode optical modules are used with single-mode fibers.

Cisco 10GBASE SFP+ Modules Data Sheet

The SFP-10G-BX40D-I and SFP-10G-BX40U-I SFPs support Digital Optical Monitoring (DOM) functions according to the industry-standard SFF-8472 Multisource Agreement (MSA).

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

Sophos Firewall, UTM, and Switch: Sophos and third ...

This article provides information about third-party transceivers such as Small Form-factor Pluggable (SFP or SFP+) and Quad Small Form-factor Pluggable (QSFP+), which have been tested for use

Supported SonicWall and 3rd party SFP and SFP

There are lots of modules on the market that have the label "SFP-H10GB-CU3M" in front, but are not really Cisco module. The following table

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

What is Optical Transceiver: A Beginner Guide (2024)

What is an Optical Transceiver? An optical transceiver, also known as a fiber optic transceiver or optical module, is a small packaged device that

Supported SonicWall & 3rd Party SFP / SFP+ modules

Supported SonicWall & 3rd Party SFP / SFP+ modules that can be used with SonicWall firewalls

What transceivers are compatible with fortigate?

Contact Fortinet Support: If in doubt, reaching out to Fortinet's support team can provide clarity on compatible transceivers and any potential issues with third

Sophos Firewall, UTM, and Switch: Sophos and third ...

For 4xSFP+ Flexi Port modules within XGS models 2100, 2300, 3100, or 3300, all ports operate at the same speed. The same models and port speed apply to 2+2 Flexi Port modules. This restriction is

Small Form-factor Pluggable

Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module

Fortinet Transceivers Data Sheet

Common connectivity problems in enterprise and data center networks are often traced back to low-quality and incompatible transceiver modules, rather than a fault in the network appliances themselves.

Knowledge related to SC interface optical modules

The SC interface optical module refers to the optical module with an interface type of SC, which must be paired with the SC interface jumper to function properly. The fastening method of the interface of the

Key Specifications for Palo Alto Networks Interfaces and

The data interfaces implemented by Palo Alto Networks® are based on industry standards and implementation agreements primarily authored by the

SFP vs SFP+: A Complete Guide to Compatibility and

Explore the ultimate guide to SFP vs SFP+ compatibility, covering interoperability and backward compatibility of SFP+ modules for seamless high

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.introspec.co.za>

Email: info@introspec.co.za

Phone: +27 73 849 2156

Address: 25 Riebeek Street, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

