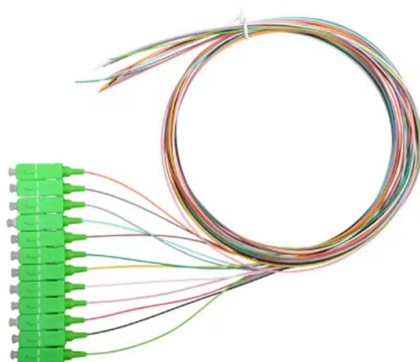


D-Link switches using Huawei optical modules



Overview

StarryLink Optical Module Huawei's StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios.

Key Takeaways

Huawei optical modules may work in D-Link switches if they follow standard SFP/SFP+/QSFP specifications, but compatibility is not guaranteed due to vendor-specific firmware and certification requirements. Compatibility Considerations

Optical modules like SFP, SFP+, and QSFP are designed to follow Multi-Source Agreement (MSA) standards, which define physical dimensions, electrical interfaces, and optical characteristics. In theory, a Huawei SFP module that meets MSA standards could physically fit into a D-Link switch port and establish a link. However, many vendors, including Huawei, implement firmware checks and vendor lock-in mechanisms to ensure modules are certified for their own switches. Using non-certified modules may result in:

- Ports not recognizing the module or link failing to come up
- Reduced performance or intermittent connectivity
- Lack of support for monitoring features like DDM/DOM (digital diagnostics)



- Potential damage to the switch interface in rare cases due to electrical or thermal mismatches

Practical Experience

Some third-party modules, including Huawei-compatible modules sold by resellers, may work in non-Huawei switches if they are MSA-compliant and do not enforce vendor-specific firmware checks . For example, Moduletek and other suppliers provide Huawei-compatible SFPs that can operate in Huawei switches and sometimes in other brands, but success depends on the switch firmware and module type .

Recommendations

- Check MSA Compliance: Ensure the Huawei module is standard-compliant (SFP, SFP+, QSFP) and matches the required speed (1G, 10G, 25G, etc.) of the D-Link switch port.
- Test in a Lab Environment: Before deploying in production, verify link status, throughput, and error rates.
- Monitor Optical Parameters: Use switch commands to check module status, optical power, and errors. D-Link switches often provide show interface transceiver or similar commands.
- Consider Third-Party Certified Modules: Some vendors sell modules explicitly certified for D-Link switches, which may offer better reliability than using Huawei modules directly.
- Firmware Updates: Ensure the D-Link switch firmware is up to date, as newer firmware may improve compatibility with third-party modules.

Conclusion

While Huawei optical modules can sometimes function in D-Link switches, there is no official guarantee due to vendor-specific certification and firmware restrictions. For reliable operation, it is recommended to use MSA-compliant modules certified for D-Link switches or thoroughly test Huawei modules in a controlled environment before production deployment .

Article Content

StarryLink Optical Module

Huawei's StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios,

What Is StarryLink Optical Module? Why Do We Need It?

To address these demands, Huawei has launched the StarryLink optical module brand. And to keep up with the rapid

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

Important Notes About Using Optical Modules Certified for Huawei ...

Support Documentation Switches Campus Switch

S7700&S8700&S9700&S12700&S16700 Learn About Products Hardware

Understanding Optical Modules

Support Documentation Switches Campus Switch S3700&S5700&S6700 Learn About Products Hardware Description

FAQs About Optical Modules

The switch must have optical modules certified for Huawei switches installed. Optical modules that are not certified for Huawei

What Is an Optical Module and Its FAQs (V200)

CloudEngine series switches must use optical modules that are certified for Huawei data center switches. Optical modules that are

Pluggable Modules for Interfaces

Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for Huawei Switches

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper

Important Notes About Using Optical Modules Certified for Huawei ...

CloudEngine S5700 Series Switches Hardware Description (V600) About This Document Using the Info-Finder

D-Link Ethernet Switches vs Huawei Ethernet Switches (2026)

D-Link Ethernet Switches vs Huawei Ethernet Switches. Base your decision on 12 verified peer reviews, ratings, pros & cons, pricing,

Understanding Optical Modules

100GE QSFP28 Optical Modules Understanding Optical Modules What Is an Optical Module Types of Optical Modules Parameter

Important Notes About Using Optical Modules Certified for Huawei ...

Support Documentation Switches Campus Switch S3700&S5700&S6700 Learn About Products Hardware Description

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra

Optical Fiber

This document provides an overall description of the CE5800&6800&7800&8800 series switches hardware that versions earlier than

Are the CloudEngine Series Switches Required to Use Optical Modules ...

The CloudEngine series switches must use optical modules that are certified for Huawei Ethernet switches. Optical or copper

StarryLink Optical Module

Huawei's StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios,

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP,

Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for

Huawei Unveils StarryLink Optical Modules That Deliver Ultimate

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Important Notes About Using Optical Modules Certified for Huawei ...

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

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The DXS-3400 Series switches feature a modular fan and power supply design for a high availability architecture. The hot-swappable

Optical Fiber

Use a multimode fiber jumper for a multimode optical module. Use a single-mode fiber jumper for a single-mode optical module.

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,

Important Notes About Using Optical Modules Certified for Huawei ...

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

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Industrial Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify Huawei

Understanding Optical Modules

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Types of Optical Modules

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What Is an All-Optical Ethernet Switch?

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal

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Understanding Optical Modules

100GE QSFP28 Optical Modules Understanding Optical Modules What Is an Optical Module Types of Optical Modules Parameter

Important Notes About Using Optical Modules Certified for Huawei ...

Support Documentation Switches Campus Switch S3700&S5700&S6700 Learn About Products Hardware Description

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Are the CloudEngine Series Switches Required to Use Optical Modules ...

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Support Documentation Switches Campus Switch S3700&S5700&S6700 Learn About Products Hardware Description

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What Is an Optical Module and Its FAQs (V200)

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Pluggable Modules for Interfaces

Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for Huawei Switches

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper

Important Notes About Using Optical Modules Certified for Huawei ...

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StarryLink Optical Module

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What Is StarryLink Optical Module? Why Do We Need It?

To address these demands, Huawei has launched the StarryLink optical module brand. And to keep up with the rapid

Optical Modules in General-Purpose Computing Scenarios

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CloudEngine series switches must use optical modules that are certified for Huawei data center switches. Optical modules that are

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Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper

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