# Moxa optical modules are incompatible with Huawei switches

## Overview

Risks of Using Non-Huawei-Certified Switch Optical Modules Some non-Huawei-certified switch optical modules are not designed in compliance with EMC standar.

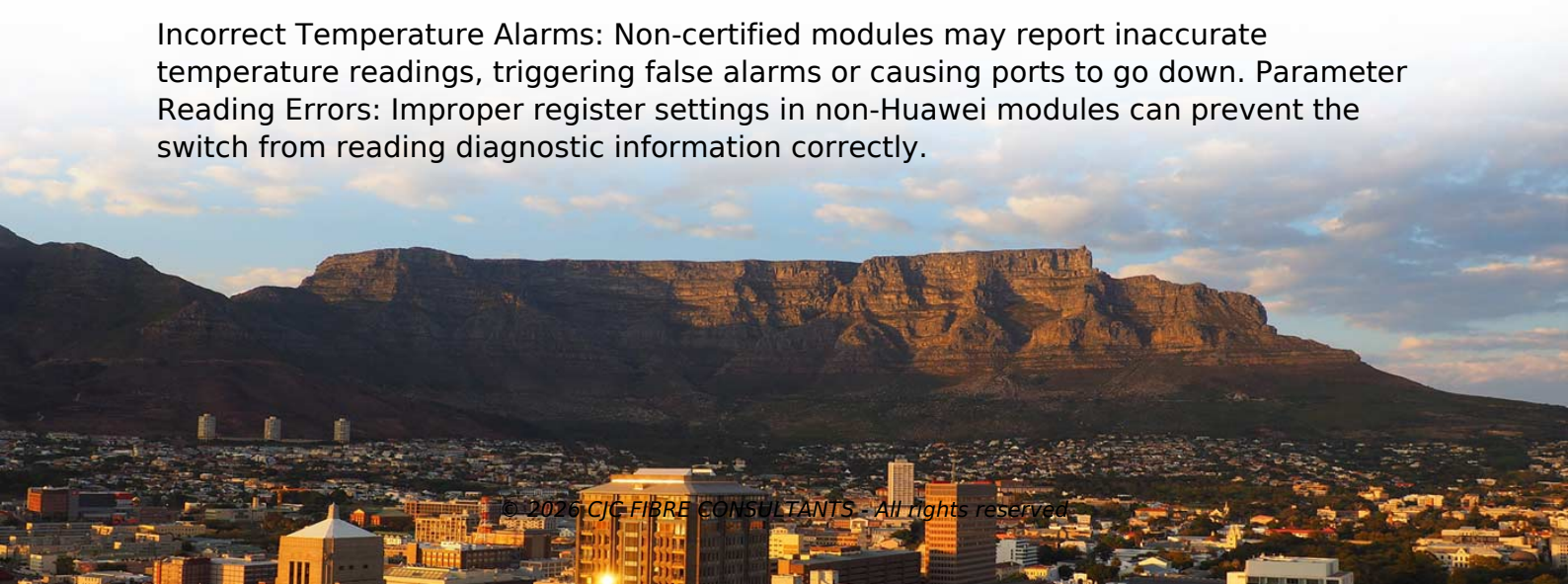
## Key Takeaways

Moxa optical modules are generally incompatible with Huawei switches unless they are Huawei-certified, due to structural, electrical, and monitoring differences.

### Compatibility Issues

Using Moxa optical modules on Huawei switches can lead to several problems because Huawei switches are designed to work with Huawei-certified optical modules: Installation Failures: Non-Huawei modules may have non-standard sizes or structures that prevent proper installation or block adjacent ports. Data Bus Suspension: Some third-party modules have defects in data bus design, which can suspend the switch's data bus and cause data loss. Hardware Damage: Improper edge connector sizes can short-circuit the switch's optical interface, potentially damaging the device.

Incorrect Temperature Alarms: Non-certified modules may report inaccurate temperature readings, triggering false alarms or causing ports to go down. Parameter Reading Errors: Improper register settings in non-Huawei modules can prevent the switch from reading diagnostic information correctly.



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### Official Recommendations

Huawei recommends the following to ensure reliable operation: Use Huawei-Certified Modules: Replace non-Huawei modules with Huawei-customized optical modules to avoid alarms and port failures. Disable Phony Alarms (if applicable): For early Huawei-delivered modules that are not fully customized, the transceiver phony-alarm-disable command can suppress non-critical alarms. Check Temperature Specifications: Ensure that any module used conforms to the switch's supported temperature range to prevent port shutdowns.

### Practical Considerations

While Moxa provides a wide range of industrial Ethernet switches and optical modules designed for harsh environments, these modules are not guaranteed to be compatible with Huawei switches. Compatibility matrices from third-party vendors may list supported brands, but Huawei switches enforce strict certification requirements, and using non-certified modules can compromise network stability. Key Takeaway: To maintain network reliability and avoid hardware damage or false alarms, it is strongly recommended to use Huawei-certified optical modules with Huawei switches rather than Moxa or other third-party modules.

## Article Content

Risks of Using Non-Huawei-Certified Switch Optical Modules

Some non-Huawei-certified switch optical modules are not designed in compliance with EMC standards and have low anti-interference capability. Additionally, they bring electromagnetic

Risks of Using Non-Huawei-Certified Switch Optical Modules

The operating temperature ranges of non-Huawei-certified switch optical modules cannot meet service requirements. When they are used under relatively high temperature, the optical power decreases,

Common Non-Certified Optical Module Alarm Messages For Switches

Moduletek Laboratory has sorted out mainstream switch brands with customized compatibility restrictions, and summarizes their processing rules for third-party optical modules.

Ethernet Switches

Moxa has a large portfolio of industrial unmanaged switches that have been specifically designed for industrial Ethernet infrastructure. Our unmanaged Ethernet switches uphold the stringent standards

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Compatibility Matrix for Transceivers and Cables

Optech optical transceivers, copper cables and active cables are 100% compatible with all major switch brands on the market. All products are tested on corresponding equipment.

Can I use third-party SFP (GBIC) modules with a Moxa switch, e.g.,

QUESTION Can I use third-party SFP (GBIC) modules with a Moxa switch, e.g., EDS-518A? SOLUTION Moxa''s switches only support SFP (GBIC) modules supplied by Moxa. So, be

Optical Interface FAQ: Transceiver Compatibility Guidelines for Cisco ...

Yes, our optical transceivers are engineered to be 100% functionally compatible with both Cisco and Huawei equipment. They adhere strictly to MSA standards, ensuring physical ...

ALM-3276800044 An Optical Module Installed on the Device Is ...

Replace the optical module with a switch-supported optical module. For switch support for optical modules, see "Appearance and Structure" in the Hardware Description.

Troubleshooting for Optical Modules on Huawei Switch

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. ...

So many questions on Moxa : r/networking

Moxa units are incredibly hardy and will keep functioning well beyond where the likes of Cisco (even ruggedised) would reach their limits. And, as the type of system they''re connected to isn''t generally a

Moxa Ethernet SFP Transceiver Product Compatibility Matrix

Moxa Ethernet SFP Transceiver Product Compatibility Matrix Refer to the product compatibility matrix below to determine which SFP modules are compatible with which product models. For more

Is there a module which can be compatible with Huawei and Cisco switches?

The answer is no. At the beginning, Huawei optical transceivers are not encrypted, so a third-party module can be compatible with both Huawei and Cisco switches. However, some Huawei switches

Compatibility between cisco and huawei | SNBForums

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We have purchased 7 units Huawei access switches, S2700-26TP-EI-AC & 1310 SFP modules from internet now we plan to add a aggregation switches, for this part, we want to use Cisco

SFP Modules

Moxa''s small form-factor pluggable transceiver (SFP) Ethernet fiber modules provide 10 Gigabit, Gigabit, and Fast Ethernet in order to ensure coverage across a range of distances.

Layer 2 Managed Switches

Moxa''s Layer 2 managed switches feature industrial-grade reliability, network redundancy, and security features based on the IEC 62443 standard. We offer toughened, industry-specific products with

How Huawei CE & S Series Switches Handle Non-Certified Optical Modules

BackgroundIn past projects and testing experience, it was commonly believed that Huawei CE series switches would not generate alarms when using third-party optical modules, while only S series

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

Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify Huawei-Certified Switch Optical Modules Risks of Using Non-Huawei-Certified Switch Optical

Moxa SFP Compatibility Matrix for SFP-1FE, SFP-1G, SFP-1G

Find the compatibility of Moxa SFP modules with various Moxa switches, media converters and secure routers in this compatibility matrix for SFP-1FE, SFP-1G, SFP-1G Copper, SFP-2.5G, SFP-10G Series.

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