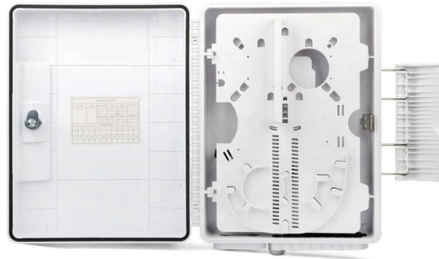


Optical modules 8G and 10G



Article Overview

8G and 10G optical modules are generally not directly compatible due to differences in signaling rates, even if they share the same SFP form factor.

Mechanical vs Electrical Compatibility

While SFP and SFP+ modules often share the same physical dimensions and can physically fit into the same port, compatibility is determined by electrical signaling and protocol support, not just form factor. A 10G SFP+ module requires high-speed SerDes lanes and firmware support to operate at 10Gbps, which an 8G port may not provide. Conversely, many 10G SFP+ ports can accept 8G modules and fall back to 8G operation if the host device supports it.

Protocol and Speed Considerations

- 8G modules are typically used for 8G Fibre Channel or similar high-speed serial links.
- 10G modules are designed for 10 Gigabit Ethernet (10GBASE-SR/LR) or 10G Fibre Channel.
- Even if the module fits physically, the port must support the module's signaling rate and protocol; otherwise, the link will not initialize, and the port may remain down or generate errors.

Practical Deployment Guidelines

- **Check Vendor Compatibility:** Always consult the switch or NIC vendor's compatibility matrix to confirm support for mixed-speed modules

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SFP+CWDM SMLC-10DB-TX2761D

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Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the

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Contact Us

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