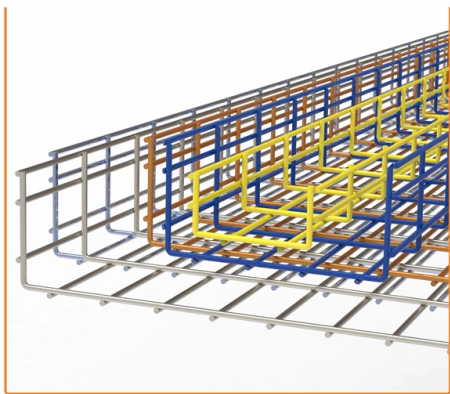


Optical Module Type Table



Article Overview

Optical modules vary by form factor, data rate, fiber type, and reach, with common types including SFP, SFP+, XFP, QSFP+, and QSFP-DD.

Optical Module Type Overview

Module Type	Data Rate	Fiber Type	Connector	Reach	Notes
SFP (Small Form-factor Pluggable)	1 Gbps	Single-mode / Multi-mode	LC	Up to 10 km (SM), 550 m (MM)	Hot-swappable, widely used in enterprise networks
SFP+	10 Gbps	Single-mode / Multi-mode	LC	Up to 80 km (SM), 300 m (MM)	Higher rate than SFP, sensitive to EMI, tighter cage design
XFP	10 Gbps	Single-mode / Multi-mode	LC	Up to 80 km (SM), 300 m (MM)	Larger than SFP+, supports XFI electrical interface, hot-swappable
QSFP+ (Quad SFP+)	40 Gbps	Single-mode / Multi-mode	MPO	Up to 100 m (MM), 10 km (SM)	Aggregates 4 channels, used in data center uplinks
QSFP28	25 Gbps	Single-mode / Multi-mode	LC	Up to 10 km (SM)	Next-generation data center networks
QSFP-DD	400 Gbps	Single-mode / Multi-mode	MPO	Up to 10 km (SM)	Core network infrastructure, high bandwidth
eSFP1	10 Gbps	Single-mode / Multi-mode	LC	Varies	Enhanced SFP with monitoring of voltage, temperature, bias current, transmit/receive power

Key Classification Criteria

- **Form Factor:** Determines physical size and interface compatibility with networking equipment .
- **Data Rate:** Ranges from 100 Mbps to 400 Gbps, suitable for legacy systems to ultra-high-speed data centers .

Article Content

Types of Optical Modules

Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode

01-10 OPTICAL MODULES

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a

What is Optical Link Module?

Explore the world of optical link modules, essential components in optical fiber communication. Learn about the different types of

Optical module

Optical modules typically have an electrical interface on the side that connects to the inside of the system and an optical interface on

Optic Modules Datasheet

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

Fiber Optic Cable Types – Multimode and Single Mode

Application Fiber Optic connectors and cables are present in nearly every communications project that we might sell into, be it a DAS

Cisco Compatible Optical Modules Catalog

ing of parameters such as optical output power temperature, and bias current. This architecture integrates advanced retiming and

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical

Contact Us

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