

Inquire about OSFP optical modules SFP



Article Overview

OSFP (Octal Small Form-factor Pluggable) modules are high-speed optical transceivers designed for 400G and 800G applications, while SFP modules are smaller, versatile transceivers supporting speeds from 1G to 50G.

Overview of SFP Modules

SFP (Small Form-factor Pluggable) modules are compact, hot-pluggable transceivers widely used in enterprise networks, campus backbones, and server-to-switch connections. They support a range of speeds depending on the variant: the original SFP up to 1 Gbps, SFP+ up to 10 Gbps, SFP28 up to 25 Gbps, and SFP56 up to 50 Gbps. Their small size and single-lane design make them ideal for applications where port density is moderate and space is limited, offering simplicity and reliability for network administrators .

Overview of OSFP Modules

OSFP modules are designed for ultra-high bandwidth applications, supporting 400G and 800G data rates by using eight high-speed electrical lanes. Each lane operates at 50 Gbps for 400G and 100 Gbps for 800G. The OSFP form factor is slightly larger than QSFP modules to accommodate additional lanes and advanced thermal management, with dimensions of 22mm x 107mm and power consumption ranging from 8W to 15W, with some high-density 800G modules reaching 20W . OSFP modules are ideal for hyperscale data centers, cloud services, and high-performance computing clusters where extreme bandwidth and high-density front-panel deployment are required

Article Content

Understanding SFP, SFP+, QSFP and Beyond: Choosing the Right ...

What are SFP, SFP+, and QSFP Transceivers? SFP (Small Form-factor Pluggable) is a compact, hot-swappable module used for

FAQ about OSFP Octal Small Form Factor Pluggable?

Q: What is the OSFP (Octal Small Form Factor Pluggable)? A: The OSFP is a new pluggable form factor with eight high speed

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable

OSFP MSA Rev 5

A Type 3 OSFP module provides maximum of 3.6mm of additional height in the front compared to a Type 2 module. Type 2 and

What Are SFP, SFP+, SFP28, QSFP+, QSFP28 and QSFP-DD and OSFP

SFP vs SFP+, SFP28 vs SFP+, QSFP vs QSFP28, QSFP-DD vs OSFP, what are the differences? The choice of Optical patch cable

Cisco Transceiver Modules

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

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal

Contact Us

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