

Article Overview

OSFP (Octal Small Form Factor Pluggable) modules in Australia provide high-speed 400G and 800G optical connectivity for data centers, AI clusters, and enterprise networks, with local suppliers like Fiber2C and FS.com offering full support and customization.

Overview of OSFP Modules

OSFP is a pluggable optical transceiver standard designed for high-density, high-speed networking. It supports 8 electrical lanes per module, each capable of 50-100G PAM4 signaling, enabling 400G, 800G, and even 1.6T connectivity depending on the configuration . Unlike QSFP-DD, OSFP emphasizes thermal management and future scalability, with integrated heatsinks (open or closed top) to handle power dissipation up to 15-20W . OSFP-XD variants double the lane count to 16, supporting up to 3.2 Tbps, but are not cross-compatible with standard OSFP ports .

Key Features

- o High-speed support: 400GBASE-SR4, 800GBASE-VR8, and breakout options like 2x400G, 4x200G, 8x100G .
- o Thermal optimization: Integrated heatsinks for efficient cooling; OSFP-RHS allows external heatsinks for flexible deployment .
- o Form factor: Slightly larger than QSFP-DD to accommodate higher power and thermal requirements .
- o Compatibility: Interoperable with IEEE-compliant 400G/800G interfaces; supports multi-vendor environments via OSFP MSA .
- o Connectivity: MPO-12 APC connectors for multi-mode fiber, supporting distances up to 50m on OM4/OM5 fiber .

Availability in Australia

- o Fiber2C: Melbourne-based branch offering 400G and 800G OSFP modules, along with QSFP-DD, QSFP112, and SFP series. They provide local tech support, compatibility testing, and 24/7 service .
- o FS.com Australia: Offers customized 400G OSFP modules, including 400GBASE-SR4 PAM4 850nm with DOM and MPO-12/APC connectors. They provide hardware adaptation, software integration, and local warehouses for fast delivery .
- o Cisco OSFP Modules: Cisco's OSFP 800G modules are available for enterprise and AI applications, supporting multiple breakout configurations and certified for IEEE 802.3 compliance .

Considerations for Deployment

- o Power and cooling: Ensure adequate thermal management for high-speed OSFP modules.
- o Compatibility: Verify port type (OSFP vs OSFP-XD) and connector type (MPO pinned/unpinned) to avoid mismatches.
- o Local support: Australian suppliers like Fiber2C and FS.com provide onsite engineers and rapid technical support, which is critical for data center deployments.
- o Customization: Some vendors offer custom firmware, protocol adaptation, and integration with specific network adapters like NVIDIA ConnectX-7 .

Summary

For Australian users, OSFP modules provide scalable, high-performance optical connectivity for modern data centers and AI networks. Local suppliers such as Fiber2C and FS.com Australia offer a wide range of 400G and 800G OSFP modules, with options for customization, technical support, and rapid delivery. When selecting modules, consider form factor, thermal management, breakout options, and vendor compatibility to ensure optimal network performance.

Explore our comprehensive SFP optical module selection guide for 2025. Learn about

Shop high-performance SFP modules and fibre optic cables for fast, reliable network connectivity. Fast

The OSDSFP100 is an Industrial 100BaseX SFP Plugin Module compliant with IEC60825-1 to be used with

Fibre SFP Transceiver Modules An SFP stands for Small Form-Factor Pluggable also known as miniGBIC (gigabit interface

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Compare SFP, SFP+ and QSFP modules by speed, distance, density and use-case to choose the best

Modern optical transport networks are the nervous system of digital infrastructure. As data demand continues to



Australian OSFP optical module SFP

SKU: SFP-100FE-LX20-RUGI Ruggedcom Compatible 100Mbps, 100Base SFP, 1310nm, 20KM Transceiver, LC Connector for SMF

In the previous post, we explained the SFP module and learned its basics. As one of our

This guide explains the most common transceiver types -- SFP, SFP+, QSFP, QSFP28, QSFP56 and QSFP-DD -- and how to

Confused about the differences between OSFP, QSFP, and SFP? This guide explains their distinct features,

This blog will explore the function of SFP modules, SFP module types, applications and how to choose suitable SFP

Supplier of vendor-compatible transceivers (SFP, SFP+, SFP28, XFP, QSFP+, QSFP28), fibre optic cabling and more for a great

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

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