

New Zealand SFP Optical Module SFP



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

SFP (Small Form-factor Pluggable) optical modules are compact, hot-swappable transceivers used in networking to connect switches, routers, and other devices via fiber or copper, available from multiple New Zealand suppliers. Overview of SFP Modules

SFP modules, also known as mini-GBICs, are compact, hot-pluggable network interface modules used for both telecommunication and data communications applications. They allow network expansion or upgrades without redesigning the existing cabling infrastructure and are compatible with a wide range of networking equipment. SFP modules support various data rates, typically 1 Gbps for standard SFP and up to 10 Gbps for SFP+, with some industrial-grade modules rated for extended temperature ranges.

Types and Specifications

- Single-mode (SMF) SFPs: Operate over longer distances, typically using wavelengths like 1310nm or 1550nm, with ranges from 10 km up to 70 km depending on the model (e.g., GLC LH SM, GLC-ZX-SM) and are suitable for long-haul connections.

- Multi-mode (MMF) SFPs: Operate over shorter distances, usually 850nm wavelength, with ranges from 220 meters to 550 meters depending on fiber type (e.g., GLC SX MM) and are ideal for local area networks .
- Copper SFPs (GLC-T): Use standard RJ45 Ethernet connections for short-distance links, typically up to 100 meters .
- CWDM and BiDi SFPs: Support wavelength-division multiplexing or single-strand fiber links for specialized applications . All SFP modules are hot-swappable, meaning they can be inserted or removed without powering down the device, and most are plug-and-play, requiring minimal configuration .

Local Suppliers in New Zealand

- PBTech: Offers a variety of SFP transceivers and networking accessories, with limited stock alerts for popular models .
- ITPLUS: Provides a wide range of SFP modules suitable for both enterprise and small business networks, including mini-GBICs .
- 4Cabling: Stocks SFP and SFP+ modules compatible with Extreme networks, including industrial temperature-rated options .
- Hikvision New Zealand: Offers optical modules for surveillance and transmission systems, such as the HK-SFP-1.25G-1310-DF-MM .
- FiberOptic.co.nz: Supplies Cisco-compatible SFPs, including GLC SX MM, GLC LH SM, GLC-ZX-SM, and copper SFPs, with in-stock availability and tested quality assurance .

Choosing the Right SFP

When selecting an SFP module, consider:

- Fiber type: Single-mode for long distances, multi-mode for short distances.
- Wavelength: Ensure compatibility with existing network equipment.
- Distance requirements: Match the module's maximum reach to your network span.
- Data rate: Standard SFP (1 Gbps) vs SFP+ (10 Gbps) depending on network speed.
- Vendor compatibility: Some modules are vendor-specific; Cisco-compliant or Extreme-compatible modules are widely available . SFP modules in New Zealand are readily available from multiple suppliers, offering flexibility for network upgrades, expansions, or replacements.

Article Content

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Our 6G SFP modules are specifically designed for the front-haul of 5G macro stations and small cells across New Zealand cities,

SFP Transceiver Modules

SFP, also commonly called mini-GBIC (gigabit interface converter), is designed to be compact enough to use in tight networking

SFP Modules

Moxa's small form-factor pluggable transceiver (SFP) Ethernet fiber modules provide 10 Gigabit, Gigabit, and Fast Ethernet in order

10G SFP+ Active Optical Cable

SFP+ Active Optical Cables are direct-attach fiber assemblies with SFP+ connectors. They are suitable for very short distances and

Small Form-factor Pluggable

Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for both telecommunication

StarTech SFP10GBSRST MSA Uncoded Compatible SFP+ Module

The SFP10GBSRST is an MSA compliant fiber SFP transceiver that's designed, programmed and tested to work with 10GBASE-SR

Fibre Modules

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