

1x4 Solid-State Fiber Optical Switch

The S4-series 1x4 solid-state fiber optical switch redirects an incoming optical signal into a selected output optical fiber. Switching is achieved through the Faraday Effect, using a patent-protected, all-crystal design.



Product Overview

Solid-State Fiber Optical Switch

The S4-series 1x4 solid-state fiber optical switch is designed to connect optical channels by redirecting incoming signals into selected output fibers using the Faraday Effect. Featuring a patent-protected, all-crystal, non-mechanical configuration, this switch eliminates the need for moving parts, ensuring exceptional reliability and durability. It is engineered to meet demanding requirements for high-frequency switching operations in advanced optical networks.

Key Features

Typical Applications

- Optical switching
- High-speed protection
- System monitoring
- Test & measurement
- Fiber-optics sensing systems

Main Advantages

No Moving Parts, Ultra-Fast Switching, Stable Latching Mode, Low Power Consumption, Easy Fiber Routing

Technical Specifications

Insertion Loss Performance

| Configuration | Typical Loss (dB) | Max Loss (dB) |
|----------------|-------------------|---------------|
| Unidirectional | 1.8 | 2.2 |
| Bidirectional | 2 | 2.4 |

Wavelength Range

1565 nm

High-Power Version Adjustment

Add 1.2dB to insertion loss for high-power version models.