

RIVO MULTITRADE OPTICAL SYSTEMS

Olink Single-mode Single-fiber Transceiver



Overview

world.taobao.com: Olink 100m Single-Mode Single-Fiber Optical. Olink 100m Single-Mode Single-Fiber Optical Transceiver Ethernet Photoelectric Converter.

Key Takeaways

The Olink Single-mode Single-fiber Transceiver converts SDI signals into optical signals for long-distance transmission over single-mode fiber, supporting multiple channels and ST-type connectors. Overview

The Olink 4TRX Single-mode Transceiver is a rack-mount optical module designed to transmit and receive SDI signals over single-mode fiber. It supports dual single-mode optic cables with ST-type connectors and can handle up to 8 channels simultaneously—4 transmitter (TX) and 4 receiver (RX) channels—allowing bidirectional communication in a compact 0.5RU form factor. The transceiver is powered via dual +12V inputs, ensuring stable operation in professional broadcast or industrial setups.

Key Features

- Signal Conversion: Converts 3G-SDI or UHD SDI signals into optical signals for long-distance transmission.
- Transmission Distance: Capable of transmitting signals up to 6.2 miles (approximately 10 km) over single-mode fiber, depending on optical power and fiber quality.

- **Channel Capacity:** Supports 4 TX and 4 RX channels simultaneously, enabling efficient bidirectional communication .
- **Fiber Compatibility:** Works with single-mode fiber (SMF), which has a small core (~9/125µm) optimized for long-distance, low-attenuation transmission .
- **Connector Type:** Uses ST-type connectors, common in professional fiber installations .
- **Compact Design:** Rack-mountable 0.5RU unit suitable for data centers, broadcast facilities, or other environments requiring high-density fiber deployment .

Applications

- **Broadcast and Media:** Ideal for transmitting multiple SDI signals over long distances in studios, OB vans, or remote production sites.
- **Telecommunications:** Can be integrated into metro or campus networks where high-speed, long-distance optical links are required.
- **Data Centers:** Supports backbone connections where multiple high-bandwidth channels need to be transmitted over single-mode fiber.

Advantages of Single-mode Fiber

Single-mode transceivers like the Olink 4TRX use laser-based transmission over a small core fiber, allowing long-distance, high-speed communication with minimal signal loss. Compared to multimode fiber, single-mode fiber supports distances from 10 km up to 80 km or more, depending on the module and optical budget . This makes it ideal for applications where reliability and long-range connectivity are critical.

Summary

The Olink Single-mode Single-fiber Transceiver is a robust solution for professional SDI signal transmission over long distances. Its multi-channel capability, ST connector compatibility, and single-mode fiber optimization make it suitable for broadcast, telecom, and data center applications, providing reliable, high-speed optical communication.

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The transceiver has four transmitter channels and four receiver channels that work simultaneously. It is compatible

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What is Optical Transceiver: A Beginner Guide (2024)

Classified by Fiber Mode Types Optical fibers are divided into: single mode fiber (SMF) and multi-mode fiber (MMF).

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Differences Between Single-mode & Multimode Fiber Optic Transceivers ...

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