

Keeplink Single-Mode Single-Fiber Transceiver



Summary of Content

The Keeplink Single-Mode Single-Fiber Transceiver is a gigabit optical module designed for long-distance, high-speed data transmission over single-mode fiber, typically supporting distances up to 20 km.

Overview

The Keeplink single-mode single-fiber transceiver is an SFP (Small Form-factor Pluggable) optical module that converts electrical signals into optical signals and vice versa, enabling network devices such as switches, routers, and media converters to communicate over fiber optic links. Unlike multimode transceivers, it uses a single-mode fiber core (approximately 9/125μm) and laser-based transmission to achieve long-distance communication with minimal signal loss.

Key Specifications

- Data Rate: Gigabit Ethernet (1 Gbps)
- Fiber Type: Single-mode fiber (SMF)
- Transmission Distance: Typically up to 20 km, depending on optical power and network conditions
- Wavelength: Commonly 1310 nm or 1550 nm for long-distance transmission
- Connector Type: Usually LC or SC connectors, compatible with standard SFP slots
- Hot-Swappable: Can be inserted or removed without powering down the network device

Article Content

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keepLINK fiber optic transceiver Gigabit single-mode single fiber

keepLiNK model: KP-9000 Transceiver Color Classification: 100M single-mode single fiber (enhanced version) 100M single-mode

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Commercial Grade|100Mbps Single Mode Single Fiber 1310|20 Kilometers/Kp-Fs1D-13-Lc20 Industrial Grade|100Mbps Single Mode

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For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

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