ZITHA TECH SPECIALTY CABLES (Pty) Ltd

LX10 Optical Module



Overview

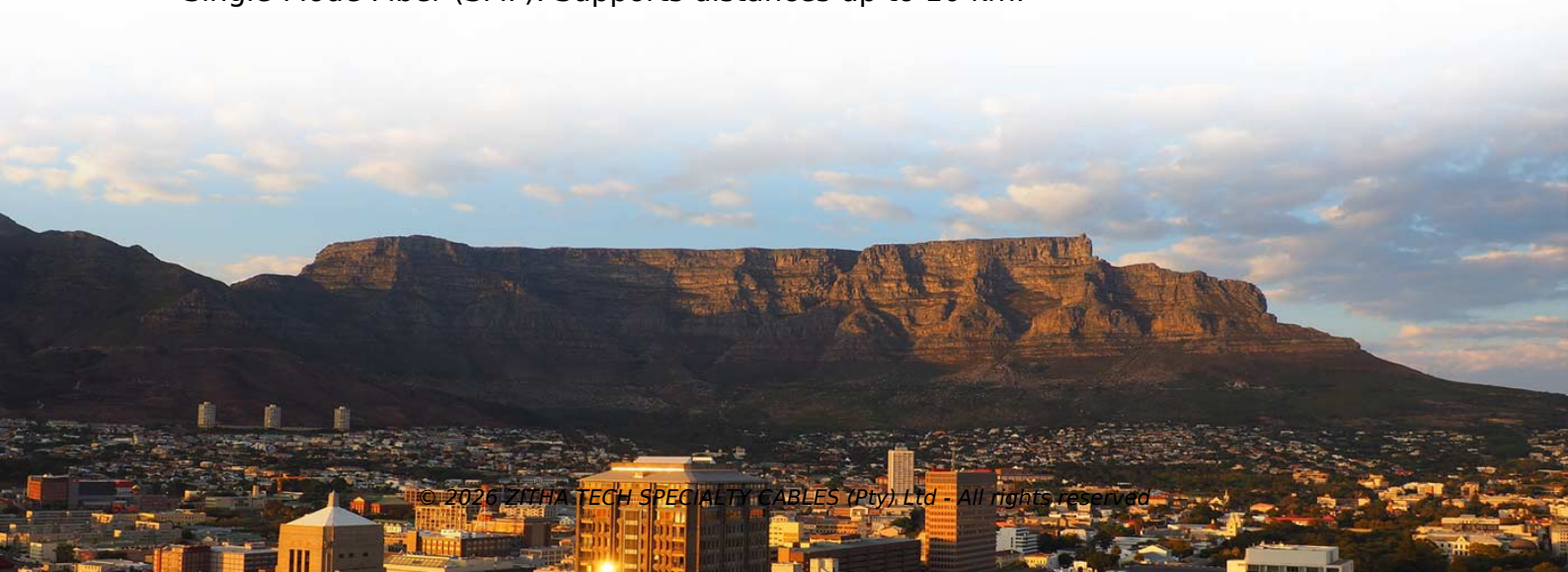
Juniper SFP-LX10 Datasheet and Specs Overview The Juniper SFP-LX10 datasheet provides a technical snapshot of the module's core operating parameters, inclu.

Key Takeaways

The LX10 optical module is a 1000BASE-LX SFP transceiver that operates at 1310nm wavelength and supports fiber optic transmission up to 10 kilometers over single-mode fiber.Overview

The LX10 module is a small-form-factor pluggable (SFP) transceiver used in networking equipment to convert electrical signals into optical signals and vice versa, enabling high-speed data communication over fiber optic cables . The "LX" in LX10 stands for Long Wavelength, typically around 1310 nanometers, and the "10" indicates a maximum transmission distance of 10 kilometers over single-mode fiber (SMF), . It is compliant with the IEEE 802.3z standard for Gigabit Ethernet, making it widely compatible across different vendors .

Fiber Compatibility
• Single-Mode Fiber (SMF): Supports distances up to 10 km.



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• Multimode Fiber (MMF): Can operate up to 550 meters, often requiring a mode-conditioning patch cable to maintain signal stability . This flexibility allows LX10 modules to be used in both enterprise networks and smaller lab setups, bridging medium- to long-distance links efficiently.
Key Features
• Hot-swappable: Can be inserted or removed without powering down the network device .

• Data Rate: Supports Gigabit Ethernet (1 Gbps), and can also be compatible with other standards like Fibre Channel or SONET/SDH depending on the device .

• Wavelength: 1310 nm, optimized for long-distance transmission .

• Distance: Up to 10 km on SMF, up to 550 m on MMF .
Comparison with Other Modules
• SX Modules: Short-wavelength, short-range (up to 550 m on MMF), typically 850 nm. LX10 offers longer reach.

• LR Modules: Long-range, usually up to 10 km on SMF, similar to LX10 but sometimes vendor-specific.

• LH Modules: Vendor-specific term (e.g., Cisco) for "Long Haul," functionally similar to LX10 for 10 km links .
Practical Use Cases
• Connecting switches or routers across campus networks or data centers.

• Linking network segments separated by medium to long distances.

• Providing a cost-effective solution for single-mode fiber infrastructure while maintaining compatibility with multimode fiber in certain scenarios . In summary, the LX10 optical module is a versatile, IEEE-standard SFP transceiver designed for reliable Gigabit Ethernet communication over fiber, offering a balance between distance, cost, and compatibility.

Article Content

Juniper SFP-LX10 Datasheet and Specs Overview

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Optic Modules Datasheet

datasheet is intended to guide the user through the various options available when choosing an optic module for a given platform

10Gtek 1.25G SFP Transceiver 1000Base-LX, 1310nm SMF ...

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About this item 1000BASE-LX/LH SFP to LC Optical Gigabit Ethernet Fiber transceiver module, 1.25G

02312DXD

And the Huawei 1000Base-LX10 Optical Transceiver, eSFP, GE, Single-mode

Huawei 02312DXD Datasheet

Huawei 02312DXD Datasheet Huawei 1000Base-LX10 Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)

LX SFP Module Guide: What Is 1000BASE-LX and vs LR LH SX

Learn what LX SFP (1000BASE-LX) modules are, how they differ from LR/LH/SX, and practical tips for compatibility,

1.25G SFP LC Module 1000Base-LX Single-Mode

Enhance your network infrastructure with confidence using the 1.25G SFP 1310nm Single-Mode Module

1000BASE-LX SFP Transceiver – Compatible Fiber

This module, which operates at a wavelength of 1310nm, is essential for linking network

HW SFP-1.25G-LX10 1000BASE-LX SFP (mini-GBIC) Transceiver

Featuring low power consumption, the hot swappable 1G SFP transceiver is ideal for Internet Service Provider (ISP) Gigabit Ethernet

FL SFP LX10-B

Gigabit SFP module for transmission up to 10 km with a wavelength of 1310 nm.

SFP-GE-LX-SM1310 (02315200)

This document provides specifications and details about the SFP-GE-LX-SM1310 optical module for Huawei devices.

Huawei ekitEngine Optical Module Datasheet

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Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

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Huawei 02315200 Datasheet

Huawei 02315200 Datasheet Huawei SFP-GE-LX-SM1310 Optical Transeiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)

MTB-Series Module

10GBASE-LR/SR/BX/T Modules » MTB-Series Module Overview Applications Key Features Specifications Downloads The PLANET

1G SFP LX for Cisco Meraki MA-SFP-1GB-LX10 1000BASE-LX Mini

□1000BASE-LX□for Cisco Meraki Optical Gigabit Ethernet Transceiver Module Single Mode 1310nm LC Duplex

MA-SFP-1GB-LX10

Digital Optical Monitoring (DOM). Extended temperature range (EXT): -5°C to 85°C (23 to 185°F) Product

02315200

02315200 - Genuine Huawei SFP-GE-LX-SM1310 Optical Transeiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC) Basic

1000BASE-LX SFP Transceiver – Compatible Fiber

4.1 Comparing top SFP modules: From Cisco''s MA-SFP-1GB-LX10 to Zyxel-compatible

4Pack 1.25G SFP LC Module 1000Base-LX (SMF,1310nm,20km,DDM

4 PACK Dual LC Single-Mode Fiber Module; Fiber Type:1.25Gb/s Wavelength: 1310-nm; Reach: up to 20KM Meters;

Huawei 02312DXD Datasheet

02312DXD 02312DXD - Genuine Huawei SFP-GE-LX10-M1 1000Base-LX10 Optical Transceiver, eSFP, GE, Single-mode Module

StarTech Cisco Meraki MA-SFP-1GB-LX10 Compatible SFP Module ...

GUARANTEED 100% CISCO MERAKI COMPATIBLE: Meets MSA standards and is designed, programmed and tested to perform

Small-Form Factor Pluggable (SFP) and Stacking Accessories

This article provides technical data on Fiber Transceivers and stacking accessories compatible with Meraki devices.

Cisco SFP and SFP+ Transceiver Module Installation Notes

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This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver

Accessories MINI-GBIC-LX-SM1310 1000BASE-SX SFP 1310-nm 10

MINI-GBIC-LX-SM1310 Module The MINI-GBIC-LX-SM1310 is aligned to IEEE 1000BASE-LX optical specifications and supports a

What is the difference between LH and LX modules?

I would like to know the difference between LX and LH SFP modules. Long Haul (LH) denotes longer distances

MSA Uncoded SFP Module

MSA Uncoded SFP Module - 1000BASE-LX - 1GbE Single Mode Fiber (SMF) Optic Transceiver - 1GE Gigabit Ethernet SFP - LC

10Gtek 1000Base-LX Gigabit SFP LC SingleMode Transceiver

1000BASE-LX/LH SFP to LC Optical Gigabit Ethernet Fiber transceiver module, 1.25G Singlemode MiniGBIC SFP

Cisco Meraki MA-SFP-1GB-LX10 1GBE LX10 Fiber Transceiver Module

Shop Hummingbird Networks for the MA-SFP-1GB-LX10 Meraki SFP on sale and in stock now. Extend your IT budget with our 100%

Support

5 Appendix C Optional transceiver modules Common transceiver module Transceiver module, fiber connector, and fiber view You

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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