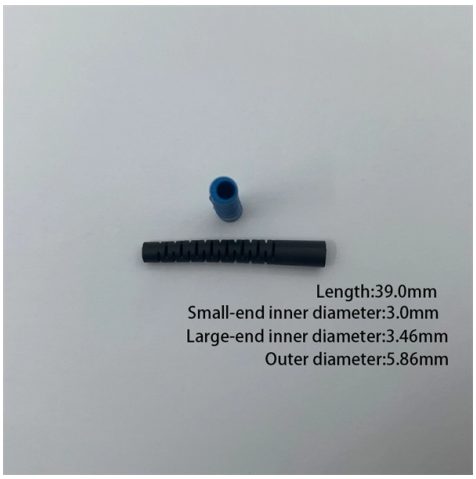
What does LH40 optical module represent



Overview

This document provides specifications for an optical transceiver module. It is an eSFP form factor single-mode fiber module that operates at 1 Gbps over a distance of 40 km at a wavelength of 1550 nm.

Key Takeaways

The LH40 optical module is a 1 Gigabit SFP transceiver designed for long-distance single-mode fiber communication up to 40 kilometers.

Overview

The LH40 optical module is a Small Form-factor Pluggable (SFP) transceiver used in networking equipment to enable high-speed data transmission over long distances. It supports Gigabit Ethernet (1000Base-LH) and is specifically designed for single-mode fiber (SMF) connections, making it suitable for enterprise LANs, data centers, and ISP networks.

Key Specifications

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Data Rate: 1 Gbps (Gigabit Ethernet)Maximum Distance: Up to 40 km over single-mode fiberWavelength: 1310 nm, optimized for long-haul transmissionConnector Type: LC (Lucent Connector) duplexHot Swappable: Can be installed or replaced without powering down the network deviceDigital Optical Monitoring (DOM): Provides real-time monitoring of operating parameters such as temperature, voltage, and optical power ApplicationsThe LH40 module is commonly used in: Enterprise LAN & SAN networks for connecting switches, routers, and serversData center interconnects where long-distance fiber links are requiredInternet Service Provider (ISP) networks for reliable Gigabit Ethernet linksTelecommunications networks requiring stable long-haul optical connections Compatibility and ComplianceThe LH40 module is compatible with Alcatel-Lucent, Huawei, and other networking equipment that supports 1000Base-LH SFP transceivers.

It is RoHS compliant, lead-free, and often TAA compliant, ensuring adherence to international safety and trade standards.

Summary

In essence, the LH40 optical module represents a long-reach, single-mode SFP transceiver capable of transmitting Gigabit Ethernet signals over distances up to 40 km. Its combination of long-distance capability, hot-swappable design, and digital monitoring makes it a reliable choice for high-performance networking applications.

Article Content

CWDM-SFPGE-LH40-1511 (CWDM Optical Modules)

This document provides an overall description of the CE5800&6800&7800&8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about

Sfp-gig-lh40-i-c Datasheet

This Alcatel-Lucent Nokia® SFP-GIG-LH40-I compatible SFP transceiver provides 1000Base-LH throughput up to 40km over single-mode fiber (SMF) using a wavelength of 1310nm via an LC

Alcatel-Lucent SFP-GIG-LH40 Compatible 1000BASE-EX 40km SFP

Featuring a built-in Semtec chip and reliable DFB laser / PIN receiver, the SFP module delivers low power consumption and stable optical links for 1G single mode networks like Gigabit Ethernet and

Accessories MINI-GBIC-LH40-SM1310 1000BASE-SX SFP 1310-nm

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MINI-GBIC-LH40-SM1310 Module The MINI-GBIC-LH40-SM1310 is aligned to IEEE 1000BASE-LH optical specifications and supports a link length of up to 40 kilometers over an SMF with an LC

huawei-s-sfp-ge-lh40-sm1550-brochure-datasheet.pdf

This document provides specifications for an optical transceiver module. It is an eSFP form factor single-mode fiber module that operates at 1 Gbps over a distance of 40 km at a wavelength of 1550 nm. It is

H3C SFP-GE-LH40-SM1550 Datasheet

This H3C SFP-GE-LH40-SM1550 is a high performance and cost effective small form factor pluggable (SFP) transceiver for 1000BASE-EX Gigabit Ethernet and 1G Fiber Channel application.

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 while Long Wavelength (LX) denotes less energy which is obviously

Cisco SFP Modules for Gigabit Ethernet Applications

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

Meaning of SR, LR, LRM, ER, and ZR in Transceiver Modules

What are the similarity and differences? Now let us make a comparison of the similarity and difference, it will help you choose the right 10G SFP+ module depends on your application.

QSFP+ 40G LR4 Explained: Your Ultimate Guide to 40G Long-Reach Optics

At the heart of this evolution lies a critical component: the QSFP+ 40G LR4 optical transceiver. This powerful little module is the workhorse for high-bandwidth, long-distance

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On the other hand, other applications such as long and ultra-long haul WDM optical networks (>1000 km of fiber) can potentially allow the upgrade of fixed WSS module by a newly

WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

An optical module works at the physical layer of the OSI model and is one of the core components in the fiber communication system. It mainly consists of optoelectronic devices (optical transmitter and

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Understanding Optical Modules

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the receiver needs to convert received optical signals into electrical signals.

The FOA Reference For Fiber Optics

Fiber Optic Measurement Units: "dB" and "dBm" Whenever tests are performed on fiber optic networks, the results are displayed on a power meter, OLTS or OTDR readout in units of “dB.” Optical loss is

A Comprehensive Guide to 400G Optical Modules: Navigating

We have presented a comprehensive overview of the transmission standards governing 400G optical modules. We trust this guide will aid you in pinpointing the optimal standard for your

What is the Difference Between LX and LH SFP Modules?

Confused by LX vs. LH SFP modules? We explain the difference between IEEE 1000BASE-LX and Vendor 1000BASE-LH, and what it means for your Cisco equipment compatibility.

Cisco GLC-LH-SM SFP Approved

Cisco GLC-LH-SM SFP optical module can function immediately without configuration, which saves installation time by leaving out this complicated procedure. It also offers internal calibration to

Technical White Paper On Single-Wavelength 400G LH Optical

Technical White Paper on Single-Wavelength 400G LH Optical Transport_20231103_EN - Free download as PDF File (.pdf), Text File (.txt) or read online for free.

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

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