

LH on the optical module



Article Overview

LH on an optical module stands for "Long Haul," indicating a vendor-specific SFP designed for long-distance single-mode fiber transmission, typically up to 10 km at 1310 nm.

Definition and Context

LH, or Long Haul, is a term primarily used by vendors like Cisco to describe optical transceivers that are functionally equivalent to the IEEE 1000BASE-LX standard but branded for marketing or legacy purposes. While LX (Long Wavelength) is an official IEEE standard for Gigabit Ethernet over fiber, LH is not standardized and serves as a vendor-specific label. In practice, LH modules operate at the same 1310 nm wavelength as LX modules and support similar distances, usually up to 10 km on single-mode fiber.

Technical Characteristics

- Wavelength: 1310 nm (common for 1G SFPs)
- Fiber Type: Single-mode fiber (SMF); can work on multimode fiber (MMF) for shorter distances using a mode conditioning patch cable (MCP) to prevent Differential Mode Delay (DMD) issues
- Distance: Typically 10 km; some vendor implementations may support longer spans, but in Cisco 1G SFPs, LH usually refers to 10 km
- Compatibility: LH modules are fully compatible with LX modules, allowing mixed deployment without performance issues...

Article Content

Designing a Module for High-Speed Optical Communication

This article explores MPS optical module solutions to meet the design requirements of high-speed optical communication as well as

Things You Should Know About 1000BASE-LX/LH SFP – Fiber Optic

1000BASE-LX/LH SFP, one of the commonly used fiber optic transceivers, is now widely used in optical transmission

GLC-LH-SMD Explained: 1000BASE-LX/LH SFP Transceiver Module

The GLC-LH-SMD is a Cisco Small Form-factor Pluggable (SFP) optical transceiver module designed for Gigabit Ethernet

Co-Packaged Optics — a deep dive | APNIC Blog

The optical engine of a transceiver — whether co-packaged or part of a pluggable module — typically includes an

Do you know the difference between the GLC-LH-SMD vs GLC-LH

GLC-LH-SMD is fully compliant with the IEEE 802.3z 1000BaseLX standard. GLC-LH-SMD also uses digital optical

What is the difference between SFP LX and SFP LH

SFP LH: SFP LH modules are suitable for long-distance connections, often used in applications like long-haul

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules Data

Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Compatibility of Cisco SFP-1G-LH Optical Module

Cisco releases the optical module model SFP-1G-LH, which supports 1G rate connection over 10G switch interfaces.

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

What is the difference between lx and lh transceivers?

Basics of Fiber Optic Transceivers Before diving into the differences between LX and LH transceivers, it's important to understand

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

□□ LX vs. LR vs. LH vs. SX SFP Modules Understanding the differences between LX, LR, LH, and SX SFP modules is

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

The 1000BASE-LX/LH SFP, compatible with the IEEE 802.3z 1000BASE-LX standard, operates on standard single

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

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics

Optic Modules Datasheet

Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the

What is the difference between SFP LX and SFP LH□

SFP LH: LH stands for "Long Haul," indicating that SFP LH modules are designed for longer-distance communication.

Cisco Transceiver Modules

Cisco Transceiver Modules and Mode Conditioning Patch cables The transceiver modules affected by the requirement

Cisco GLC-LH-SM Vs. GIC-LH-SMD

Digital Optical Monitoring or DOM is an industry wide standard, intended to define a digital interface to access real

What is the Difference Between LX and LH SFP Modules?

Historically, vendors created "LH" modules to signal that their optics were higher quality or

TechnicalWhitePaper onSingle-Wavelength400GLH OpticalTransport

Logic and Rules of Optical Network Evolution As a basic pipe network of network traffic transport in a long term, the optical network

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical

What Is the Difference Between LX and LH SFP Modules?

LX is an IEEE-defined standard, while LH is a vendor-specific naming convention that usually refers to the same optical

Cisco 1000BASE-LX/LH SFP

Explore the Cisco 1000BASE-LX/LH SFP module, designed for reliable and high-performance Gigabit Ethernet connectivity.

GLC-LH-SMD= (Does it ready support both Single Mode and

Hi, It was mentioned that GLC-LH-SMD support both Single Mode and MultiMode fiber. I think it should be quite sure

Cisco GLC-LH-SM SFP Approved

Cisco GLC-LH-SM optical module is characterized by a duplex LC type interface with a higher density as well as a smaller fiber optic

What Is an Optical Module and Its FAQs (V200)

Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters,

What Is the Difference Between LX and LH SFP Modules?

There is no fundamental technical difference between LX and LH SFP modules. LX is an IEEE-defined standard, while LH is a

Are lx and lh sfp compatible?

In some contexts, "LH" might refer to modules that can support even longer distances than standard LX modules, potentially up to 70

SX vs SR vs LX vs LH Explained: A Simple Guide

Understanding the differences between SX, SR, LX, and LH is essential for building reliable and efficient fiber optic

1000BASE-SX, 1000BASE-LX, 1000BASE-ZX& BX SFP: A Simple

It's worth noting that while 1000BASE-LX is specified in the IEEE 802.3 standard, 1000BASE-LH is not. However,

1000base-LH vs. 1000base-LX: What's the Real Difference?

Learn the real difference between 1000base-lh and 1000base-lx, including wavelength, fiber compatibility, Cisco

A Quick Overview of Cisco SFP-1G-LH Module

Cisco SFP-1G-LH optical module is a hot swappable transceiver module, which features plug and play. Long ago, a

Contact Us

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