

What does the 1310 optical module represent



Article Overview

1310 nm optical modules are widely available in SFP+, SFP28, and QSFP28 form factors, supporting data rates from 1G to 100G over single-mode fiber for medium-distance links.

Overview

1310 nm optical modules operate in the O-band (1260–1360 nm), offering low dispersion, stable performance, and cost efficiency, making them ideal for data centers, enterprise backbones, campus networks, and metro access networks . They are typically used with single-mode fiber (SMF) to achieve longer transmission distances with minimal signal loss and distortion .

Common Types and Data Rates

- SFP+ 10G Modules: Support 10 Gbps data rates, often with a reach of up to 10 km over SMF. Example: XG-SFP-LR-SM1310, compliant with IEEE 10GBASE-LR standards .
- SFP28 25G Modules: Designed for high-speed campus and data center links, supporting 25 Gbps over medium distances .
- QSFP28 100G Modules: Suitable for large-scale data center interconnects, providing 100 Gbps over single-mode fiber .
- 1G Modules: Available for legacy or lower-speed networks, typically supporting distances up to 10 km....

Article Content

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Huawei eKitEngine Optical Module Datasheet

These compact optical transceivers offer a. access and ring network, storage network, and long-haul network.

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Understanding Wavelengths In Fiber Optics

Understanding Wavelengths In Fiber Optics Fiber optics is full of jargon but it's important to understand it. One of the more confusing

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Fiber Optic Wavelengths Explained: 850 vs 1310 vs 1550 nm

Unveiling Fiber Optic Wavelengths: Why 850, 1310, 1550 nm — and What Lies Beyond Light in optical fiber travels in

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Single-Mode vs Multimode Fiber and 1300nm/1310nm SFP

Selecting the correct fiber type is critical for ensuring optimal performance, signal integrity, and scalability. Among the most

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What Do 850nm, 1310nm and 1550nm Actually Mean in Optical

Learn what 850nm, 1310nm, and 1550nm mean in optical transceivers. Discover the differences between SX, LX, and

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1310nm Single Mode Fiber Optical Transceivers Explained

In short, a 1310nm single mode fiber optical module serves as the interface between network hardware and the fiber infrastructure,

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What is 1310 nm? | Definition & Guide | RF Essentials

A Small Form-factor Pluggable (SFP) module is the metal cartridge that plugs into the front of a network switch. It contains the

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Huawei SFP-GE-LX-SM1310 1GE 1310nm 10km SFP Optical

Huawei SFP-GE-LX-SM1310 1GE 1310nm 10km single-mode SFP module for Huawei switches and routers. Check real-time price,

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What are the differences between 1310nm and 1550nm optical module?

Can optical modules with wavelengths of 1310nm and 1550nm be connected? Taking into account the different

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1310/1550+1590 nm Filter Wavelength Division Multiplexers

Lumentum 1310/1550+1590 nm filter wavelength division multiplexers (WDMs) use interference filter technology to separate or

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Fundamental mode transmission around 1310-nm over OM1

A narrow linewidth continuous-wave laser at 1310 nm wavelength is intensity modulated with the modulation frequency

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1300nm and 1310nm wavelengths in Fiber Optic Communications

850nm and 1300nm light wavelengths are produced by LEDs and are standards for multimode fiber. 1310nm and

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1310-CWDM-MUX-DEMUX-4(8)-Plug-in-Module-Product-Specification

This MUX/DEMUX module plugs into one half of a 1RU, 19" rack mount chassis for simple installation and modularity. This Chassis

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Why 1310nm precisely?

1310 nanometres is the wavelength of light first used in fibre-optic cables to transmit data between sites. AT& T used 1310nm lasers

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What is Optical Link Module?

Explore the world of optical link modules, essential components in optical fiber communication. Learn about the different types of

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1310nm Single Mode Fiber Optical Transceivers Explained

A 1310nm single mode fiber optical transceiver is one of the most widely used optical transceivers in modern fiber-optic networks,

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Fiber Optic Wavelengths Explained: 850 vs 1310 vs 1550 nm

In fiber optics, the choice of wavelength is a fundamental design decision: it determines how far your signal can travel,

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What is difference between 1310nm and 1550nm?

Accordingly light sources at these three wavelengths have been commercialized. These are the wavelength of the, light source called

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Technical Characteristics Of 10G Optical Modules With 1310nm And

There are three wavelength windows for 10G optical module communication applications, namely the 850nm window,

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What is the difference between 1310 and 1550 SFP?

The numbers 1310 and 1550 refer to the wavelength of light used in the optical transmitters of SFP (Small Form-factor Pluggable)

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What is the difference between SFP 1310nm and 850nm?

The main difference between SFP modules operating at 1310nm and 850nm is the wavelength at which they transmit optical signals.

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SFP+10G 1310nm 10Km LC Optical Module Guide

SFP+10G 1310nm 10Km LC Optical Module Detailed Specifications The SFP+10G 1310nm 10Km LC optical module is a widely used

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What Is 10GBASE-LR? SMF 1310nm 10km SFP+ Explained

A practical, engineer-grade guide to 10GBASE-LR: what it is, 1310nm single-mode SFP+ specs, optical budget examples,

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Understanding Wavelengths In Fiber Optics

Multimode fiber is designed to operate at 850 and 1300 nm, while singlemode fiber is optimized for 1310 and 1550 nm. The difference

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Everything You Need to Know About 1310nm Optical Modules

A 1310nm optical module lets you move data efficiently through fiber optic communication networks. As part of the O

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What is the difference between 1310nm and 1550nm fiber?

It is important to note that the latest advancements in fiber optic technology have significantly reduced the differences between

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What is the difference between 1300nm and 1310nm?

While the numerical difference between 1300nm and 1310nm is minimal, they often represent different wavelengths

Contact Us

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