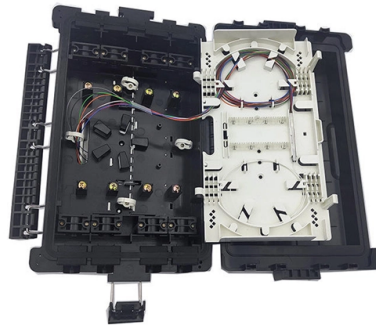


How many kilometers does a Huawei C optical module cover



AI Overview

Huawei C-class optical modules typically cover up to 20 kilometers, depending on the specific model and deployment scenario. Huawei C-class optical modules, such as the GPON-OLT-CLASS-C+/C++ series, are designed for single-mode fiber networks and are commonly used in GPON access services. These modules generally support transmission distances of up to 20 km, which makes them suitable for connecting optical line terminals (OLTs) to optical network units (ONUs) in metropolitan or suburban areas.

Factors Affecting Coverage

- Module Type:** Single-mode modules (SM) can reach longer distances than multi-mode modules (MM). For example, Huawei SFP-FE-LX-SM1310 modules support 15 km, while S-SFP-FE-LH40-SM1310 modules can reach 40 km.
- Wavelength:** C-class modules typically operate at 1310 nm for upstream and 1490 nm for downstream signals in GPON networks.
- Network Conditions:** Fiber quality, splices, connectors, and optical splitters can reduce effective transmission distance.
- Power Budget:** The optical power output and receiver sensitivity determine the maximum achievable distance without signal degradation.

Practical Applications

- GPON Access Networks:** Connecting OLTs to multiple ONUs in residential or business areas.
- Data Center Interconnects:** Short- to medium-range connections within or between data centers.
- Flexible Deployment:** Depending on the model, Huawei C-class modules can be used for distances ranging from 10 km to 20 km, with some enhanced models reaching up to 40 km under optimal conditions.

In summary, a standard Huawei C optical module is designed to cover approximately 20 km, but the exact distance depends on the module variant, fiber type, and network setup. For precise deployment planning, consulting the module datasheet is recommended to account for optical power and network losses.

Article Content

Huawei Optical Module Common Models

However, the maximum power consumption is typically around 12-14 watts per module. It's important to consult the datasheet provided by the manufacturer for the exact power consumption specifications.

GBIC Huawei C: The Real-World Guide to Compatibility ...

GBIC Huawei C offers seamless integration with select Huawei OLT platforms supporting SFP-class C++, delivering tested long-distance performance and ease of installation comparable with original

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

Optical Amplifier Overview

The optical amplifier module works at the physical layer. If the corresponding physical port is steady on, it indicates that the optical amplifier module works normally and no LOS alarm is

Huawei Compatible OSG002004 GPON OLT Class C+ Module

OSG002004 is a Huawei Compatible GPON OLT Class C+ transceiver, operating over Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 33 dB, which in most cases

Replacing an Optical Module

Follow these guidelines when replacing an optical module: Wear an ESD wrist strap or gloves when replacing the cables. Ensure that the new optical module has the same center wavelength and

Optical Module

Optical Performance Optical Communication Technologies Optical Components
Optical Power Management Ultra-High Speed Transmission Electrical-layer
Technology Protection Basis

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

[Jan 28, 2025] Huawei H19-315-ENU Exam Dumps Files, Q62/104:

H19-315-ENU Exam Dumps File: Huawei.H19-315-ENU.v2025-01-28.q104 - Q62. What is the maximum of kilometers of ONU distance can be supported by the Huawei EA5800 series OLT?

Exploring the Correlation Between Optical Module Wavelength and ...

Generally, distances of 2 km and below are considered short, 10 to 20 km are medium, and 30 km, 40 km, and above are long distances. Different wavelengths of optical modules paired

Huawei Enterprise Support Community

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Introduction of Optical Modules on Huawei Switches

A 100GBASE-ER4-lite optical module can interoperate with a 100GBASE-ER4 optical module, at a maximum distance of 30 km. You may learn how to classify and check the optical modules ...

Optical Modules in Intelligent Computing Scenarios

In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid

Huawei Unveils StarryLink Optical Modules That Deliver Ultimate

Stable: Huawei's short-distance optical return loss positioning technology enables fault detection on optical links in minutes, significantly faster than the typical three-hour industry standard.

huawei optical module | huawei networking products

Huawei switches must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not liable for any

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface

Optical Module Installation and Replacement

If an optical module cannot be completely inserted into an optical port, turn the optical module over and try again. Cover unconnected optical modules with dust plugs.

How Far Can a Fiber Optic Cable Be Run?

Fiber optic cables have revolutionized communication networks, offering high-speed data transmission over long distances. Understanding the maximum distance these cables can cover is

[unsupervised_topic_modeling/topics/en/13/100/100/topics](#) at ...

Contribute to annontopicmodel/unsupervised_topic_modeling development by creating an account on GitHub.

Huawei Unveils StarryLink Optical Modules That ...

At MWC Barcelona 2025, Huawei introduced the StarryLink optical modules, aimed at creating a network experience with "3S" quality (Spanning, Stable, Secure). This launch took place

EANTC Independent Test Report

The optical module we test is "Optical module XFP|SFP+ Transceiver, TSFP+, Extended C Band, 9.95~11.3Gbps with CDR,-1dBm, 3dBm, -16dBm, LC, 40KM". DCM is needed when the transmission

Constructing Intelligent Ultra-High-Speed

The oDSP integrates the optical-layer AI neuron function module to fully cover the optical layer in distributed mode without having to transform network devices (function modules are embedded and

Understanding Pluggable Optical Modules

Classified by transmission rate Currently, the transmission rates of optical modules cover a wide range. According to different transmission rates, optical modules can be classified into 400 Gbit/s optical

Huawei CFP-100G-LR4 100GBASE-LR4 10km SM LC Optical

Huawei CFP-100G-LR4 Overview The Cisco 100GBASE-LR4 CFP module supports a link length of 10 kilometers on standard single-mode fiber (SMF, G.652). 100 Gigabit Ethernet signal is carried over

What is the maximum distance for SFP?

The maximum distance for an SFP (Small Form-Factor Pluggable) transceiver depends on the type of SFP module, the optical fiber used, and the specific application.

Optical Module: An Optical Module Does Not Send Light Signals

Procedure Use an optical power meter to test whether the transmit power of the optical module is normal. If not, replace the optical module.

Contact Us

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