

How to use Huawei commercial optical splitters



Article Overview

Huawei optical splitters are passive devices used to split or combine optical signals in PON/FTTH networks, and they can be installed in racks, trays, or field closures for immediate plug-and-play functionality.

Understanding Huawei Optical Splitters

Huawei optical splitters are passive, bi-directional devices that divide a single optical signal into multiple outputs or combine multiple signals into one. They are commonly used in GPON architectures to share a single backbone fiber among multiple endpoints, such as homes or offices . Splitters come in various ratios, including 1:2, 1:4, 1:8, 1:16, and 1:32, and can be implemented using PLC (Planar Lightwave Circuit) or FBT (Fused Biconical Taper) technologies depending on network requirements .

Installation and Connection

- Choose the appropriate splitter type and ratio based on the number of endpoints and network design. For example, a 1:4 splitter divides one input into four outputs, while a 1:16 splitter can serve up to 16 endpoints .
- Mounting options:
 - Rack-mounted splitters (e.g., SPL1202 series) can be installed in a 19-inch rack for central office deployment.
 - Tray-mounted splitters (e.g., SPL9201/SPL9202) are suitable for Optical Distribution Frames (ODF) or Fiber Distribution Terminals (FDT)

Article Content

Nov 01, 2025

Can the F1001-AC be connected to the optical splitter?

When the optical splitter is connected to the F1001-AC, the optical power is insufficient after the splitter is connected. As a result, the optical terminal cannot work properly.

Feb 10, 2026

OSPL43201

The Huawei OSPL43201 is a carrier-grade bare optical splitter designed for FTTx, campus, and metro access networks. Using PLC (Planar Lightwave Circuit) technology with a 1:4 even split, this

Jan 30, 2026

Xingmai PEN Passive Aggregation Module Quick Start Guide

The Xingmai Passive Ethernet Network (PEN) is an all-optical campus network solution based on the passive technology. Leveraging mainstream Ethernet protocols, the Xingmai PEN solution uses

Mar 09, 2026

How to Connect a Splitter to Another Splitter: A Complete ...

In this guide, we'll explain how to safely connect a splitter to another splitter, covering both fiber optic and coaxial setups. We'll also share tips to minimize signal loss and ensure ...

Nov 05, 2025

Huawei Enterprise Support Community

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Huawei Passive Optical Network (PON) Splitters: Empowering FTTH ...

This project highlights how Huawei's PON splitter solutions can drive cost-effective and reliable FTTH expansions, even in densely populated areas where demand for high-speed internet is

Jun 05, 2026

Optical Splitters for Central Office/Headend

Optical Splitters for Central Office/Headend Optical splitters and couplers split or combine light—distributing signals injected into a single fiber strand to multiple

Aug 05, 2025

FS Community

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

Nov 21, 2025

Huawei OLT Configuration

Learn and Explore Huawei OLT Configuration by Technical Hakim. An optical line termination (OLT), also called an optical line terminal, is a device that serves as the service provider endpoint...

Jul 17, 2026

Fiber Splitters The Role And Application Guide

The working principle of fiber splitters is relatively simple, and the signal distribution is achieved through the principle of optical coupling in optical fibers.

Sep 29, 2025

The Working Principle and Application Scenarios of Fiber Optic Splitters

The working principle of fiber optic splitters is based on optical coupling and splitting . When a light signal enters the splitter, it is divided into multiple outputs through interference effects or

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Optical Splitters

You use splitters in the field to allow you to share a single backbone fiber among up to 32 houses. You would rarely use a 1-32 splitter (maybe in a multiple unit building), and instead cascade the splitters

Apr 17, 2026

Functions and Applications of Huawei Optical Splitters

Learn how fiber optic splitters work, types (PLC, FBT), and uses in FTTH/data centers. Understand signal splitting, key specs, and how to choose the right splitter.

Mar 19, 2026

Optical Splitters: Split Ratios, Splitting Architectures & PON Network ...

This guide focuses on two critical aspects of optical splitters that define FTTH performance: split ratios (how signals are divided) and splitting architectures (how splitters are

Mar 31, 2026

Optical Splitters in Modern Networks

Multimode optical splitters are optimized for 850nm and 1310nm operation, whereas single-mode optical splitters are optimized for 1310nm and 1550nm operation. Additionally, based on

Mar 03, 2026

Fiber Optic Splitters – Selection Guide for FTTH Networks

In any FTTH or FTTX project, getting fiber to every end user efficiently is the goal. One component makes that possible at scale — the fiber

Jul 15, 2026

1x5 Huawei FTTR Fiber Optic Gpon PLC Splitter

The FTTR GPON PLC Splitter is an integral component of Huawei's FTTR solutions. This splitter exemplifies the convenience of a plug-and-play device.

Aug 18, 2025

Installing Optical Transceivers and Connecting Optical Fibers

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or SFP+ ports and connect them to the ports of the peer device using

Oct 30, 2025

Huawei optical router splitter connection method

If you're looking for a comprehensive guide on configuring your Huawei ONT Optical Network Terminal for RJ45 connection and PPPoE dial-up setup, you've come to the right place.

May 30, 2026

Huawei ODN SPL12 Support Guide, Manuals & PDF – Huawei

ODN SPL12: Access product manuals, HedEx documents, product images and visio stencils.

Dec 19, 2025

Guide to Using Pluggable Modules

The system may fail to obtain information about non-Huawei-certified optical modules or obtain incorrect information. You are advised to use Huawei-certified optical modules. Obtain the electronic label of

Mar 04, 2026

(Video) What is an optical splitter (SPL) v2.0

Support Documentation Optical Access EA5800 Series OLT (X17/X15/X7/X2) SmartAX EA5800 Training Materials Training Multimedia

Jun 23, 2026

Do You Know How to Place and Use the Optical Splitter?

In optical communication networks, optical splitters play a crucial role in efficiently dividing and distributing signals. Proper placement and usage are essential for optimizing signal quality and

Aug 17, 2025

Optical Splitters in PON Networks | FTTH Guide

Learn how optical splitters are used in PON networks, including centralized and cascaded FTTH deployment strategies and key factors.

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Your Go-to Guide to Optical Splitter

The optical splitter is an optical power distribution device that splits one optical signal into multiple optical fiber signals to achieve multichannel transmission.

May 27, 2026

Everything You Need to Know about Applications of Fiber Splitter

Fiber splitters are essential in optical networking, dividing a light signal into multiple outputs. Used passively, they're crucial in telecommunications, data distribution, and sensors,

Mar 07, 2026

How to Use Optical Couplers and Splitters in Fiber Networks

Optical coupler and splitter guide: split or combine fiber signals, choose the right device, and optimize your fiber network for reliable performance.

Contact Us

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