

Article Overview

Huawei offers a range of 100Mbps SFP and eSFP optical modules for both single-mode and multi-mode fiber networks, including standard and BIDI types for flexible deployment.

Types and Specifications

1. Standard 100Mbps Modules

- o SFP-FE-SX-MM1310: Multi-mode, 1310nm wavelength, up to 2 km transmission, LC connector, SFP form factor .
- o eSFP-FE-LX-SM1310: Single-mode, 1310nm wavelength, up to 15 km, LC connector, enhanced SFP (eSFP) form factor with monitoring capabilities .
- o S-SFP-FE-LH40-SM1310: Single-mode, 1310nm, 40 km, LC connector, eSFP form factor .
- o S-SFP-FE-LH80-SM1550: Single-mode, 1550nm, 80 km, LC connector, eSFP form factor .

2. BIDI (Bi-Directional) Modules

- o SFP-FE-LX-SM1310-BIDI: Transmits at 1310nm and receives at 1550nm, single-mode, 15 km, LC connector. Must be paired with SFP-FE-LX-SM1550-BIDI for proper operation .
- o SFP-FE-LX-SM1550-BIDI: Transmits at 1550nm and receives at 1310nm, single-mode, 15 km, LC connector. Works only with the 1310nm BIDI module .

Key Features

- o Form Factors: SFP (small form-factor pluggable) and eSFP (enhanced SFP with monitoring of voltage, temperature, bias current, transmit and receive optical power), .
- o Fiber Types: Single-mode for long-distance transmission, multi-mode for short-distance, cost-effective deployment .
- o Hot-Swappable: All modules can be inserted or removed without powering down the device .
- o Monitoring: eSFP modules support real-time monitoring of optical parameters, useful for network management .
- o Compatibility: BIDI modules must be used in pairs with complementary wavelengths to ensure proper bidirectional communication .

Usage Scenarios

- o Campus Networks: Multi-mode modules for short-distance connections between switches and routers.
- o Data Centers: Single-mode modules for longer links, including inter-building connections.
- o Fiber Upgrades: BIDI modules reduce fiber cabling requirements by allowing bidirectional transmission

over a single fiber strand.

o Network Monitoring: eSFP modules provide enhanced visibility into optical link performance, helping prevent downtime. Huawei 100Mbps optical modules provide flexible, reliable solutions for both short- and long-distance fiber networks, supporting standard, enhanced, and BIDI configurations to meet diverse deployment needs .

Introduction of Optical Modules on Huawei Switches On an optical network, a sender needs to convert electrical signals into optical

This article summarizes several solutions for using optical modules with switches and common problems encountered

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module

View and Download Huawei RRU user manual online. RRU network hardware pdf manual download. Also for: Rru3804, Rru3801e.

If an optical module is installed in a running device, you can run the display transceiver command to view parameters of the optical

For checking transmission links on Huawei Routers, it is good to know how to find out the optical power of 100GE

Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper

Logical Interface Configuration Configuring Optical Interface Attributes Configuring Interface Split and Merge Configuring

Overview & Thematic Scope This FAQ addresses one of the most critical operational decisions for network engineers managing

For example, SFP-FE-LX-SM1550-BIDI must be used with SFP-FE-LX-SM1310-BIDI.

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

Huawei optical module configuration 100Mbps

The device must use optical or copper modules recommended on the configurator because non-Huawei-certified optical or copper

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei

After configuring interface split or merge on an interface, save the configuration and restart the subcard or switch

Displaying Optical Module Information You can use the display commands to view information about the optical module on an

What Can I Do If a Message Is Displayed Indicating that an Optical Module Is Not Supported During CSS Port Configuration? When

Web: <https://www.morwarreconst.co.za>

