

Huawei 10 Gigabit Optical Module

Technical Parameters



AI Overview

Huawei 10 Gigabit optical modules support various SFP+ and XFP transceivers with single-mode or bidirectional operation, offering transmission distances from 10 km to 80 km, wavelengths from 1270 nm to 1550 nm, and full digital diagnostic monitoring.

Key Types and Specifications

- SFP+ Modules**
 - SFP-10G-LR:** Single-mode fiber, 1310 nm wavelength, 10 km transmission distance, LC connector, supports 10G Ethernet, DDM/DOM enabled.
 - SFP-10G-ER-1310:** Single-mode fiber, 1310 nm, 40 km transmission, Tx power -2 to 4 dBm, Rx sensitivity -16 dBm, DFB laser, PIN photodiode, operating temperature 0-70°C, compliant with CE, FDA, IEC60825-1, RoHS, SFP MSA.
 - Single-fiber bidirectional (BIDI) modules:** Must be used in pairs (e.g., SFP-10G-BXD1 with SFP-10G-BXU1), with complementary wavelengths such as 1270/1330 nm for 10G Ethernet over single-mode fiber.
- XFP Modules**
 - XFP-10G-1550NM-80KM-SM:** Single-mode fiber, 1550 nm wavelength, supports 80 km link length on G.652 fiber, LC connector, DDM/DOM supported, compatible with Huawei Quidway S9303 switches.

Performance Parameters

Data Rates: 10.31 Gbps for 10G Ethernet, compatible with 1G-8G Fiber Channel and STM-64 SDH/SONET standards.

Transmit Power: Typically -2 dBm to 4 dBm for SFP-10G-ER-1310.

Receiver Sensitivity: Around -16 dBm, with overload protection at -1 dBm.

Dispersion Tolerance: Up to 300 ps/nm for long-distance modules.

Power Supply: +3.3V single power supply.

Temperature Range: Standard modules operate from 0°C to 70°C.

Certification and Compatibility Huawei requires optical modules to be certified for use on Huawei switches to ensure reliability and service stability. Certified modules display "HUAWEI" on the label, with manufactured dates after July 1, 2013, for 10GE or lower, and after January 1, 2016, for 40GE/100GE modules.

Article Content

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G,

Huawei SFP-10G-LR 10G SFP+ 1310nm 10km single-mode LC module for enterprise and carrier networks. Check real-time Huawei 10G SFP module price

Huawei OMXD30000 Optical Transceiver,SFP+,10G,Multi-mode Module

Specifications Product Name Huawei OMXD30000 Optical Transceiver Form Factor SFP+ (Small Form-Factor Pluggable Plus) Data Rate 10 Gbps (10 Gigabit Ethernet) Wavelength 850 nm Maximum

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

HUAWEI Transceiver

HUAWEI Transceiver Optical transmitter and receiver products of Gearlink optical transceiver manufacturer are trusted by customers with high compatibility, low

10 Gbit/s SFP+ Optical Modules

10 Gbit/s SFP+ optical modules apply to 10 GE optical ports. The wavelength can be 850 nm, 1310 nm, or 1550 nm, and the transmission distance ranges from 0.5 km (0.31 mi) to 80 km (49.71 mi).

01-10 OPTICAL MODULES

If an optical module is installed in a running device, you can run the display transceiver command to view parameters of the optical module, including the center wavelength, transmission distance, fiber

01-10 PLUGGABLE MODULES FOR INTERFACES

If an optical module is installed in a running device, you can run the display transceiver command to view parameters of the optical module, including the center wavelength, transmission distance, fiber

Huawei SFP-10G-USR Guide: Specs, Uses & Compatibility

Explore Huawei SFP-10G-USR specs, features, compatibility, and applications. Learn how this 10G SFP+ module supports efficient short-range networking.

10 Gbit/s SFP+ Optical Modules

SFP-10G-ZR OSX040N03 Table 2-100 Specifications of the OSX040N03 optical module Item Specifications Part number S4017482 Module Form Factor SFP+ Optical connector type LC Optical

Checking Parameter Settings of the Optical Modules

Check the parameter settings such as rate, wavelength, and transmission distance of the interconnected optical modules. Using the optical modules from the same vendor is recommended.

Huawei Optical Transceiver eSFP GE Single-Mode

Description The Optical Transceiver eSFP GE Single-Mode Module (1310 nm, 10 km, LC) is a high-performance Gigabit Ethernet optical module designed for

10GE SFP+ Optical Modules

Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-10G-BXU1 must be used with SFP-10G-BXD1.

Huawei 02310MNW Datasheet

Huawei 02310MNW Datasheet Huawei SFP-10G-USR 10GBase-USR Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.1km, LC)

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, common types, and naming conventions of optical modules, causes of

SFP-10G-SR

Provides technical support and specifications for Huawei's SFP-10G-SR optical module.

10GE SFP+ Optical Modules

This document describes hardware components of the S9700, including the cabinet, chassis, power supply facilities, fan modules, cards, cables, and pluggable modules for interfaces.

Huawei Technical Support

Discover Huawei's technical specifications and features for 10Gbps SFP optical modules, enhancing connectivity and performance in enterprise networks.

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, CFP2, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

10 Gbps All-Optical Broadband: China's Journey from

10 Gbps all-optical broadband is maturing in technology, standards, and application, and has entered large-scale pilot in China.

SFP-10G-USR (02313URN 02310MNW) Datasheet

Overview 10GBase-USR Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.1km, LC)

HW:SFP-10G-SR Datasheet Overview

Overview Huawei Optical Transceivers - HUAWEI SFP-10G-SR.Optical Transceiver,SFP+,10G,Multi-mode Module(850nm,0.3km,LC).

Huawei SFP-10G-LR Datasheet Overview

Quick Specs ... Product Details Huawei SFP-10G-LR provides these features: x/Rx Wavelength: 1310 nm. / 1310 nm. Media Type: Single-Mode fiber (SMF) Optical Budget: 6 dB Max. Distance: 10 km

How to View Optical Module Parameters

If you know the model or type of an optical module, you can view the section "Pluggable Modules for Interfaces" in the Hardware Description to look up parameters of the optical module, including the

Huawei Optical Module Common Models

Huawei's main business scope is switching, transmission, wireless and data communication telecommunication products, providing network equipment, services and solutions in the field of

Huawei OSX010000 Datasheet

Huawei OSX010000 Compatible 10GBASE-LR SFP+ Optical Transceiver Module (SMF, 1310nm, 10km, LC, DOM) Product Specifications ... Contact Us: Email: sales@compufax (305) 865-8517 +1

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

The Huawei SFP-GE-LX-SM1310 is a carrier-grade optical transceiver designed for Gigabit Ethernet over single-mode fiber. Operating at 1.25Gbps with a 1310 nm

10 Gbit/s XFP Optical Module

10 Gbit/s XFP Optical Module You can use different levels of 10 Gbit/s XFP optical modules with OC-192/STM-64 POS interfaces and 10 GE interfaces. The wavelength of these 10

Huawei SFP-10G-LR Price Datasheet Optical

SFP-10G-LR The Arista Small Form-Factor Pluggable (SFP) optics modules and cables offer customers a wide variety of high-density and low-power 10 Gigabit Ethernet connectivity options over fiber or

Types of Optical Modules

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a center wavelength of 850 nm, 1310 nm, or 1550 nm, whereas a

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