

Huawei single-mode optical module 20km



AI Overview

Huawei 20km single-mode optical modules are designed for long-distance transmission over single-mode fiber, supporting data rates from 1G to 100G with wavelengths typically around 1310nm or 1291/1311nm for BIDI applications.

Overview Huawei 20km single-mode optical modules are used to extend network connectivity over long distances using single-mode fiber (SMF). They are available in various form factors and data rates:

- SFP (1G):** Example, SFP-1G-LX-20KM-HU supports 1000BASE-LX with LC duplex connectors, transmitting at 1310nm over distances up to 20km. It is compatible with Huawei switches, routers, and storage systems, and built to MSA standards for reliability and long service life.
- SFP+ (10G):** Modules like SFP-10G-LR-1310nm provide 10GBase-LR throughput up to 20km over SMF using 1310nm wavelength via LC connectors. They support Digital Optical Monitoring (DOM) for real-time diagnostics and are fully compatible with Huawei equipment.
- QSFP28 (100G BIDI):** The 100G BIDI QSFP28 transceiver uses TX1291nm/RX1311nm wavelengths with PAM4 signaling for up to 20km over single-mode fiber. It supports 103.125/106.25Gb/s data rates and is suitable for 100GBASE-LR1 BIDI applications, requiring paired modules for bidirectional transmission.

Key Features

- Single-Mode Fiber Compatibility:** Optimized for long-distance transmission with low attenuation.
- Wavelengths:** Typically 1310nm for standard SFP/SFP+ modules; BIDI modules use paired wavelengths like 1270/1330nm or 1291/1311nm.
- Form Factors:** SFP for 1G, SFP+ for 10G, QSFP28 for 100G, supporting hot-swappable installation.
- Digital Diagnostics:** Many modules include DOM for monitoring optical power, temperature, and voltage.
- Standards Compliance:** Modules comply with IEEE standards (1000BASE-LX, 10GBASE-LR, 100GBASE-LR1), MSA specifications, and certifications like ISO 9001, CE, RoHS, and FCC.
- Bidirectional (BIDI) Options:** Single-fiber BIDI modules must be used in pairs, e.g., SFP-10G-ER-SM1270-BIDI with SFP-1...

Article Content

Cisco SFP and SFP+ Transceiver Module Installation Notes

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These transceiver modules are hot-swappable

XGSPON ONU SFP+ 1270nm-TX/1577nm-RX 9.953G-TX/9.953G-RX Class N1 20km

This allows the module to handle bidirectional data transmission over a single-mode optical fiber, enabling 9.953 Gbps symmetric upstream and downstream data rates for distances up to 20km.

HTF DWDM equipment, OTN Solution, QSFP28 OSFP

HTFuture offers industry-leading fiber optic products and WDM system solutions with global recognition for excellence and innovation.

2X SFP Optical Module Gigabit Single-Mode Optical Module SFP-GE

2X SFP Optical Module Gigabit Single-Mode Optical Module SFP-GE-LX-SM1310 20KM Dual Fiber 1.25G for H3C

FR 10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi-Mode ...

FR 10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi-Mode 850nm Dual-Fiber LC 300m SR 3Y Warranty Factory Direct Sales

Haile 10G Single-Mode Single Fiber Optical Module SFP-XG20

The Haile SFP-XG20-SM1270-A optical module is engineered for superior performance in single-mode fiber networks. Offering 10 Gigabit speed and long-distance reach up to 20km, it facilitates seamless

Huawei RRU SFP

Huawei RRU SFP module, optical transmission device, low price around \$7, minimum order of 1 unit. Suitable for wholesale, available in bulk, wireless infrastructure equipment.

2025's latest reviews: a comprehensive guide to huawei 10g single

Huawei 10g single-mode single-fiber optical module (sc/lc port, 1270/1330nm, supports 20km/40km/80km) is a classy choice for optical fiber network deployment, especially suitable for data

Huawei Compatible 1000BASE-BX SFP BIDI TX-1310nm/RX-1490nm

The 1G-SFP-U34-20 is a high-performance BiDi SFP transceiver designed for Gigabit Ethernet applications over single-mode fiber (SMF). Operating at wavelengths of 1310nm for transmitting data

SFP transceiver CBO Palo Alto Networks SFP-1G-LX-20KM | AiO.lv

Buy CBO SFP transceiver for Palo Alto Networks SFP-1G-LX-20KM — 1G, 20 km single-mode module for network uplinks. Delivery available in Riga, Latvia and the EU.

10G SFP+ Optical Fiber Module 20km LC Simplex Fiber

With a transmission distance of 20km, this module is perfect for connecting remote locations with a reliable and secure fiber optic connection.

Ubiquiti 10G CWDM Single-Mode Optical Module • SFP+ • 10/1GbE •

Product information "Ubiquiti 10G CWDM Single-Mode Optical Module • SFP+ • 10/1GbE • 1270nm • Single Pack • UACC-OM-SFP10-1270" SFP+-Transceiver für CWDM, der 10G-Verbindungen bis zu

SFP-10GBASE-LR-20-HW2-C | Huawei® | Transceivers | Prolabs

This Huawei® compatible SFP+ transceiver provides 10GBase-LR throughput up to 20km over single-mode fiber (SMF) using a wavelength of 1310nm via an LC connector.

SFP Transceiver CBO SFP-1G-LX-20KM | AiO.lv

Product information Description The BlueOptics SFP Transceiver CBO SFP-1G-LX-20KM is a compact optical module designed for 1 Gbps Ethernet links over single-mode fiber with a reach of up to 20

Huawei 100G BIDI QSFP28 TX1291nm Single Lambda 20km | FiberMall

100G BIDI QSFP28 optical transceiver uses the wavelengths of TX1291nm/RX1311nm with PAM4 signals for up to 20km transmission over single-mode fiber. The module supports

Optical Transceiver

Find here Optical Transceiver, Transceiver Module manufacturers, suppliers & exporters in India. Get contact details & address of companies

Ubiquiti Compatible XGSPON ONU SFP+ 1270nm-TX/1577nm-RX

It utilizes bidirectional transmission over a single-mode optical fiber with an integrated XGSPON MAC and OMCI stack to support full FCAPS management functionality. This module provides a symmetric

Huawei SFP-1G-LX-20KM-HU SFP 1000BASE-LX Singlemode

The SFP-1G-LX-20KM-HU 1000BASE-LX LC Duplex SFP compatible with Huawei has a receiving function (receiver with 1310nm) and a transmitting function (transmitter with 1310nm) for the

Sfp Module Networking Products in Nigeria

Mikrotik: S-3553lc20d, 20km, 1.25G Sm SFP Module S-35/53lc20d is a pair of sfp transceivers, the s-35lc20d is a 1.25g single mode optical sfp module...

Huawei SFP Optical Fiber Module

With our SPA Optical Transceiver Module, you can reach high speeds up to 10km/ 20km/ 40km/ 80km/ 120km/ 150km. With our advanced technology, your Huawei SFP Module can transfer data with

10G X2 ZR Module Guide: Specs, Compatibility & Sourcing

The phrase "10G X2 ZR" refers to a specialized 10 Gigabit Ethernet optical transceiver module designed for ultra-long-haul connectivity, reaching up to 80 km over single-mode fiber. FiberMall Exaoptics.

Fiber Optic Transceiver at | Transceiver Module in New Delhi | ID ...

A fiber optic transceiver is a hot-pluggable hardware module that converts electrical network data into light pulses (transmit) and incoming optical signals back into electrical data (receive). It bridges

Optical Modules for Huawei S Series Switches

Multi-mode optical modules are applicable to short-distance transmission, while single-mode optical modules are applicable to long-distance transmission. Single-mode optical modules will be widely

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