

20km optical module bandwidth



Overview

Supporting up to 20km transmission over single-mode fiber at 1310nm wavelength, this module provides 8 dB link budget and multi-rate operation from 8.3Gbps compliant with LC/UPC duplex connectors, ensuring consistent performance across medium-distance links. CFP (Centum Form-factor Pluggable) optical module: length x width x height of CFP is defined as 144.6mm, high-speed, hot plugging and supporting for data communications and telecommunications applications. QSFP28 optical module: the interface package size of QSFP28 is the same with. An SFP 20km transceiver is a small form-factor pluggable optical module designed to transmit Gigabit Ethernet signals over distances of up to 20 kilometers using single-mode fiber. These modules typically operate at a 1.25Gbps data rate and use a 1310nm wavelength to deliver stable long-distance. 100GBASE-BX20 QSFP28 Optical Transceiver Module for Ethernet and Data Center (SMF, 1310nm-TX/1280nm-RX, 20km, LC, Extended Temp, DOM) The QSFP28 transceiver provides 100GBase-BX throughput up to 20km over single-mode fiber (SMF) using a wavelength of 1310nmTx/1280nmRx via an LC connector. This blog helps system integrators, panel builders, procurement teams, and electrical engineers evaluate performance, interface fit. Optcore's OPC10G-xx20DCR is a high performance and cost-effective 10Gb/s CWDM (Coarse Wavelength-Division Multiplexing) SFP+ LR transceiver module, which provides a high capacity, high bandwidth communication solutions for multiplexed optical networks.

Article Content

ZTE collaborates with YOFC to verify ultra-high-power

To fully verify the ultra-low Kerr non-linearity of the hollow-core fiber, ZTE employs an Erbium-ytterbium co-doped Optical Fiber Amplifier (EYDFA)

Introduction to GPON Optical Modules and Their

Key Features of GPON Optical Modules High Bandwidth: Supports gigabit-level speeds suitable for modern applications like streaming, online

OFC 2026 Special: Arista Leads XPO Launch as Three

Discover the major industry shift at OFC 2026 as Arista Networks and global leaders unveil the XPO MSA, Open CPX, and OCI MSA to solve AI

GlobalFoundries accelerates adoption of co-packaged optics for

SCALE CPO solution is the industry's first OCI MSA capable platform and built with GF's proven silicon photonics technology MALTA, N.Y., May 4, 2026 – GlobalFoundries (Nasdaq: GFS)

Transceiver Optical Module Cisco 10G SFP+ TX1330/RX1270nm

Fiber Optical Transceiver|Optical Module Cisco Compatible 10G SFP+ BiDi TX1330nm RX1270nm 20km LC/UPC Single Mode Specifications With TX wavelength of 1330nm and an RX wavelength of

Mikrotik S-31DLC20D Datasheet Overview and Specs Guide

□□ Mikrotik S-31DLC20D Datasheet Overview The Mikrotik S-31DLC20D datasheet defines a 1.25Gbps single-mode SFP optical transceiver designed for stable Gigabit Ethernet transmission over

25G SFP28 20km SMF Transceiver

Our 25G SFP28 20km transceiver delivers extended-reach connectivity for metropolitan area networks. Supporting up to 20km transmission over single

Single Fiber 20 km SFP+ Optical Transceiver: PLANET MTB-LA20

PLANET MTB-LA20 is SFP+ Single Fiber Transceiver supporting 1.25-10.31 Gbps data rate in 20 km distance over Single-Mode Fiber (SMF).

10Gb/s 20km CWDM SFP+ LR Transceiver Module

This CWDM SFP+ transceiver module is designed for 10 Gigabit Ethernet links up to 20km over single mode fiber. It features a highly reliable CWDM DFB

10Gb SFP SFP+ Module 20Km | Dual Wavelength

10Gb SFP SFP+ module transceiver optical module is a high-performance 10G SFP+ fiber module designed for 20km bidirectional data transmission over

Co-Packaged Optics (CPO) Market Trends 2026: AI Data Center Optical ...

Explore the future of co-packaged optics (CPO) in AI data centers. Learn how silicon photonics, optical I/O, and high-speed optical interconnect technologies are shaping next-generation

40GBase LR4 QSFP+ 20km Optical Transceiver

QSFP-40G-LR4-20 40G QSFP+ LR4 Transceiver Module (1271nm, 1291nm, 1311nm, 1331nm SMF 20km LC DDM) The 40G QSFP+ LR4 is a transceiver

10GBASE-LH20 SFP+ 1310nm 20km Optical Transceiver Module

10GBASE-LH20 SFP+ 1310nm 20km Optical Transceiver Module Max. Power Consumption 1W Tested in Targeted Switches for Superior Performance, Quality, and Reliability Hot Pluggable SFP+ MSA

100GBASE-BX20-D QSFP28 BiDi 1310nm-TX/1280nm

The QSFP28 transceiver provides 100GBase-BX throughput up to 20km over single-mode fiber (SMF) using a wavelength of 1310nmTx/1280nmRx via an LC

1000BASE-EX SFP 20km Industrial | SMF | EDGEOPTIC

EDGEOPTIC 1000BASE-EX SFP 20km industrial: 1310nm, 15dB link budget, -40 to 85°C. Ruggedized extended-reach for outdoor metro networks.

SFP+ BiDi 10G LR Tx1270/Rx1330nm 20KM

This module utilizes bidirectional (BiDi) technology, allowing simultaneous transmission and reception of data on a single fiber, effectively doubling the capacity of existing fiber infrastructure.

100Gbps QSFP28 Optical Modules

QSFP-100G-CWDM4 QSFP28-100G-LR4 QSFP28-100G-SR4 QSFP-100G-4WDM-40 QSFP-100G-CWDM4-ISP QSFP-100G-CWDM4-Lite QSFP-100G-ER4 QSFP-100G-SWDM4 QSFP28-100G-1310

SFP+ BiDi WDM 10GbE 20km Universal Optical Transceiver

The 10G SFP+ BiDi WDM optical transceiver transmits data over single mode fibre at a distance of up to 20km. The transceiver operates on 1 wavelength and works in point-to-point scenario.

d q n e t w o r k s

Distance limits for various protocols over different types of fibre

100g Qsfp28 Bidi LC 20km/40km/60km Optical Fiber

100g Qsfp28 Bidi LC 20km/40km/60km Optical Fiber 100g Transceiver Module
Compatible Cisco, Find Details and Price about 100g Bidi Qsfp 100g Qsfp28

7832 10G SFP+ 1310nm Transceiver Guide

Select TPS 7832 10Gb/s SFP+ 1310nm optical transceivers for 20km single-mode links, with duplex LC, DDM, host fit, thermal checks, installation tips and RFQ guidance.

Broadcom Sian3 and Sian2M: 200G/lane optical

Analyzing Broadcom's Sian3 and Sian2M 200G/lane DSP technologies. Sian3 (3nm/SMF) and Sian2M (5nm/MMF) support 800G and 1.6T

SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver

Features Sfp-10G-Lr-1310Nm 20km LC DDM Optical TransceiverSFPWhat Is An (Fiber) Optical Transceiver?How to Classify Optical Transceivers?How to Choose The Right Optical Module?Modules CompatibilitySelect The Original One Or Compatible One According to The Budget SituationIn order to meet a variety of needs of transmission, the manufacturers launched a variety of categories of optical modules. Below are some common methods to classify them.See more on mefiberoptic 5/5(1)FS

100GBASE-BX20-D QSFP28 BiDi 1310nm-TX/1280nm

The QSFP28 transceiver provides 100GBase-BX throughput up to 20km over single-mode fiber (SMF) using a wavelength of 1310nmTx/1280nmRx via an LC

SFP Optical Module Selection Guide for 2025: Key

Explore our comprehensive SFP optical module selection guide for 2025. Learn about crucial factors like data rate, distance, fiber type, and

SFP Single Fiber 20 km transceiver | 1G BX Ethernet

Details: This advanced 20dB transceiver is designed for highly reliable fiber optic network links up to 20 km. Using DFB+PIN technology, it operates at a nominal wavelength of 1550Tx-1310Rx coupled to

Fiber Optic Module 10G SFP+ 10km or 20km Reach

The high performance 1310nm DFB transmitter and high sensitivity PIN receiver provide superior performance for Ethernet applications at up to 10km or 20km

10Gb/s 20km CWDM SFP+ LR Transceiver Module

10Gb/s SMF CWDM 1270~1430nm 20km SFP+ LR Optical Transceiver Module
Optcore's OPC10G-xx20DCR is a high performance and cost-effective 10Gb/s

1000BASE-LX SFP 20km SMF Optical Transceiver

Asterfusion 1G SFP optical transceiver module provides 1000BASE-LX links up to 20km over SMF ideal for ISP backbones, enterprise LAN & SAN networks.

400G Optical Modules Explained: SR4 Vs. DR4 Vs.

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

Optical fiber cable 10km-AliExpress

Discover key features, installation tips, and common issues of optical fiber cable 10km for reliable long-distance data transmission in telecom, surveillance, and industrial applications.

SFP 20km Selection Guide: Key Specs for 1G Transceiver

Discover how to select SFP 20km transceivers for 1G networks. Learn key specs, fiber compatibility, optical power budget, and deployment considerations.

10G SFP+ CWDM 20KM Optical Transceiver

Gigalight SFP+LR CWDM Transceiver is a “Limiting module”, designed for 10GBASE-LR, and 2G/4G/ 8G/10G Fiber- Channel applications. The transceiver consists of two sections: The transmitter

Contact Us

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