

10 Gigabit Optical Module 20km Range



Article Overview

10G SFP+ optical modules with 20km range are single-mode fiber transceivers operating at 1310nm, supporting 10Gbps data rates with LC duplex or simplex connectors and hot-pluggable form factor.

Key Specifications

- Data Rate: Up to 10.31 Gbps for 10 Gigabit Ethernet, 1G-10G Fibre Channel, and STM-64 SONET applications .
- Wavelength: 1310nm, suitable for single-mode fiber (SMF) deployments .
- Distance: Supports optical links up to 20km on G.652 single-mode fiber, depending on fiber quality and attenuation .
- Connector Type: LC duplex for standard SFP+ modules or LC simplex for BiDi WDM modules .
- Form Factor: SFP+ (Small Form-factor Pluggable Plus), hot-pluggable for easy installation and replacement .
- Optical Budget: Typically around 9 dB, exceeding standard 10GBASE-LR requirements .
- Diagnostics: Digital Diagnostic Monitoring (DDM/DOM) per SFF-8472, providing real-time monitoring of optical power, temperature, bias current, and supply voltage .
- Compliance: CE, IEC60825-1 Class 1 laser safety, RoHS compliant .

Applications

- Enterprise Networks: Long-distance connections between buildings or across campuses

Article Content

SFP+ Single Mode LC Module (20km)

Single mode 10G SFP+ transceiver spans distances up to 20km (12.42 mi.) at 10G speeds. Hot-pluggable

Cisco SFP-10G-LR Module: 10km Range & Specifications

Complete guide to Cisco SFP-10G-LR module specs, 10GBASE-LR standard compliance, 1310nm laser operation,

10G SFP+ 20km LR | From €12 | EDGE Optical Solutions

EdgeOptic's 10G-SFP-20 is a multi-protocol 20km extended-reach SFP+ for 10 Gigabit single-mode fiber

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

SFP 20km modules belong to the broader SFP optical transceiver family and are optimized for medium-to-long distance Gigabit

10G Multi-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 400 m using multi-mode fiber with a duplex LC UPC connector.

10G SFP+ LR 20Km 1310nm Single-Mode Transceiver

Buy the SFP-1020-LR, a 10G SFP+ LR transceiver with 1310nm wavelength, 20Km range on single-mode fiber, dual LC connector,

Syrotech GOXP-1396-20 | 10G Dual Fiber 20km SFP Module

Syrotech GOXP-1396-20 Efficient 10Gbps SFP+ transceiver module with 1310nm wavelength and up to 20km range

SFP-10G-ER Explained: Powering 40km 10Gbps Optical Links

This comprehensive guide dives deep into the SFP-10G-ER optical transceiver module. Learn its technical

SFP Single Mode LC Module (20km)

TRENDnet's SFP Single Mode LC Module, model TEG-MGBS20, is compatible with standard SFP slots found on network switches

SFP Module | AE-SFPDLX-10G-LR-20KM for Long-Distance Fiber

SFP Module This is a 10G SFP+ transceiver module designed for high-speed data transmission over single-mode fiber (SMF) with a

SFP+10G 1310nm 10Km LC Optical Module Guide

9. Compatibility: Compliant with IEEE 802.3ae 10GBASE-LR standard and compatible with a wide range of network equipment from

10G BiDi SFP+ 20km Tx1270/Rx1330 | €16.33 | EDGE Optical Solutions

The BIDI-10G-SFP-20A (Tx1270/Rx1330) will pair with any SFP+ MSA-compliant Tx1330/Rx1270 BiDi module that meets the 9 dB

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

XFP (10GB Small Form-factor Pluggable) optical module: "X" is the abbreviation of Roman numerals 10, all XFP

H!Fiber 10G Single Mode SFP+ LC Module, 10GBase-LR Fiber

10GBase-LR SFP+: 10 Gigabit Ethernet Single Mode SFP+ Module, 10 Gb/s, 1310nm wavelength, Duplex Dual LC,

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for

LINK-PP LS-SM3110-10C: Your Ultimate 10G SFP+ LR 10km Optical ...

Explore the LINK-PP LS-SM3110-10C 10G 10km SFP+ module. Discover specs, applications & why it's a top choice

SFP Optical Transceiver Modules for Long Distance: A Complete

Overview: Why Long-Range SFP Modules Matter in Modern Networks In an era where enterprises are rapidly

Cisco 10GBASE SFP+ Modules Data Sheet

A broad range of industry-compliant SFP+ modules for 10 Gigabit Ethernet deployments in diverse networking

10G SFP+ 20km LR | From €12 | EDGE Optical Solutions

Is 10GBASE-LX the same as 10GBASE-LR 20km? 10GBASE-LX is not a defined IEEE standard for 10 Gigabit Ethernet. The LX

Cisco 10 Gigabit Modules

Discover Cisco 10 Gigabit Ethernet Modules, offering high-speed, reliable connectivity to enhance network performance and scalability.

10G SFP+ Optical Transceiver Modules | AscentOptics

AscentOptics offer a full range of 10G SFP+ products line, including 10G copper SFP 30m/80m over Cat6a/Cat7 copper cable, SR for

SFP-1020-LR: SFP+ 10G LR Transceiver Module Single-Mode 1310nm 20Km

The SFP-1020-LR is a long range singlemode 10G SFP+ optical module compatible with the 10GBase-LR specifications. It uses a

Reach Further, Faster: Your Ultimate Guide to Long-Range 10G Optical ...

Long-range 10G optical modules enable high-speed data over distances up to 80km. Learn about types, specs,

How to Choose the Best 10G 20km SFP+ Module for Long-Distance

When selecting a reliable fiber optic solution for medium-distance data transmission, a 10G 20km SFP+ module is

SFP-10GB-ZR 100KM Long-Range 10G Transceiver Module

Extended ZR+ 10G SFP+ Optical Transceiver | 1550nm | Duplex LC | 100KM | DDM | Long-Haul Compatible with Cisco, Juniper, HP

1000Base-LX-31 SFP 1310nm 20km Transceiver Datasheet

Description The SFP1G-LX-31 series single-mode transceivers are small form factor pluggable module for bi-directional serial optical

10G BiDi SFP+ 20km Tx1270/Rx1330 | €16.33 | EDGE Optical Solutions

10GBASE-BX20 10G BiDi SFP+, 20km single fiber, Tx1270/Rx1330nm, 9dB budget, DOM. Matched-pair module. EU stock + lifetime

10G SFP+ LR20 SMF 1310nm 20km Transceiver Module

Featuring a built-in Semtec/Macom chip and reliable DFB laser from global leaders, the 10G SFP+ LR20 module delivers low power

Contact Us

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