Optical module single-mode 10g distance



Overview

In 10G SFP+ modules, “LR” stands for Long Reach and specifically refers to a standardized transmission distance of up to 10km over single-mode fiber.

Article Content

10G SFP+ LR Explained: Specs, Distance, and Use Cases

In 10G SFP+ modules, “LR” stands for Long Reach and specifically refers to a standardized transmission distance of up to 10km over single-mode fiber. It is not a marketing label, but a distance

10G Transceivers: Types, Distances & Buying Guide

Learn the real-world differences between 10G transceiver types (SFP+ SR/LR/ER/ZR, copper/DAC/10GBASE-T), distances, use cases and buying tips.

10GE SFP+ Optical Modules

If the SFP-10G-ER-1310 is connected to a 10Gbase-ER standard optical module (1550nm, 10GE, 40km), the maximum transmission distance is only 20km due to different specifications such as wavelength

SFP+ SR, LR, and ER Modules: Your Definitive Guide

Single-mode fiber has a smaller core size, which allows the propagation of a single mode of light and is able to support larger distances to

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

The XG-SFP-LR-SM1310 is aligned to IEEE 10GBASE-LR optical specifications and supports a link length of up to 10 kilometers over a single-mode fiber (SMF) with an LC connector. It adopts the

10G Single-Mode Optical Module

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

10G SFP+ LR DML 1310nm 10km Optical Transceiver Module

This series uses a pair of single-mode optical fibers with a center wavelength of 1310nm, a distance of up to 10km, and an optional industrial-grade operating temperature range.

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

The Huawei Optical Transceiver SFP-10G-LR is a versatile and high-performance 10G SFP+ module. Designed for single-mode fiber, it offers reliable 10km

10G SFP+ Fiber – SFP+ Single Mode LC Module

Fiber Mode/Distance Single mode 10G SFP+ transceiver spans distances up to 10km (6.21 mi.) at gigabit speeds.

Fiber Modules

All of them are hot-pluggable small-form factor transceiver modules integrated with the high sensitivity PIN receiver and signal conditioner for 1.25/10 Gigabit Ethernet applications.

Ubiquiti 10G Single-Mode Optical Module UACC-OM

Complete your network installation with this 10G Single-Mode Optical Module 2-pack from Ubiquiti Networks. Featuring duplex LC connectors and 1310nm TX and RX

2026 Global Optical Module Selection Guide (Website Homepage

V. Contact Us Skyward Telecom focuses on original global optical module supply, covering full speeds and scenarios from 10G to 1.6T.

Small Form-factor Pluggable

Quad Small Form-factor Pluggable (QSFP) transceivers are available with a variety of transmitter and receiver types, allowing users to select the appropriate

OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber

Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications. Essential guide for data center fiber

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Optics Transceiver Module Market 2025

Key product categories include single-mode optical modules for long-distance communication and multi-mode optical modules for shorter-range applications. Market growth is driven by surging demand for

Single-mode optical fiber

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed to carry only a single

ZTE 033030100474 SFP+-SM-80KM-1550Tx LX4442CDR Optical Module

The ZTE 033030100474 (LX4442CDR) is a high-performance 10G SFP+ optical module compliant with the SFP+ MSA standard. Operating at the 1550nm wavelength window, it supports data transmission

Mellanox (NVIDIA Mellanox) MMA2P00-AS Data Center Optical Module ...

Get exclusive access to Mellanox (NVIDIA Mellanox) MMA2P00-AS Data Center Optical Module Technical Solution details at Hong Kong Starsurge Group Co., Limited, a renowned Optical

Contact Us

Continue your research online:

Website: https://kenhardtprimary.co.za
Technical inquiry: https://kenhardtprimary.co.za/project-desk.html
African project coordination: Century City, Cape Town, Western Cape, South Africa

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved