

Do you have optical modules with a range of 150 kilometers



Overview

Long-distance variants, typically referred to as LX, EX, ZX, or ER/LR SFPs, are engineered with higher optical power budgets and longer wavelength lasers (e., 1310nm, 1550nm), enabling transmission distances from 10 km up to 80 km or more over single-mode fiber (SMF). SFP (Small Form-factor Pluggable) modules are standardized network transceivers that support a range of data rates (1G, 10G, 25G) and fiber types. A frequent source of confusion comes from real-world deployment experiences shared across engineering communities. Many. Do you really need a 10km module for a 300m connection?

Many customers unknowingly overspend by not matching transceiver distance with real needs. Product Knowledge: Choosing the Right One: ☐ Match fiber type (MMF or SMF) ☐ Consider link budget and optical power ☐ Watch for connector. This article answers one question cleanly: how far will short-reach and long-reach optical transceivers actually carry your signal?

I'll stick to the essentials—standards, typical real-world distances, why the limits exist, and a short buying checklist you can use the moment you walk into a rack. The same holds true of pluggable coherent modules. 100 Gbps coherent modules based on the ZR specification debuted in 2017. 5 watts per 100G of data delivered. Microsoft became an early adopter and used the. Our OC-3/STM-1 SFP 150km transceiver provides ultimate long-haul SONET/SDH connectivity for carrier backbones. Supporting 150km transmission over single-mode fiber at 1550nm wavelength, this 100/155M SFP module delivers outstanding 36 dB link budget with speeds from 100-155Mbps.

Article Content

1.25G SFP 160km | Maximum Reach

Our 1.25G SFP 160km transceiver provides maximum-reach gigabit connectivity for ultra-long-haul applications. Supporting 160km

Short-Reach vs Long-Reach Optical Transceivers: How Far Can They

Short-reach modules are optimized for cost, low power and density. They almost always use 850 nm VCSEL lasers and multimode

SFP Optical Module Transmission Distance Range | Yingda

SFP+ Optical Module: Offers the widest range of transmission distances, from 300 meters to 120 kilometers. The

“Understanding Transmission Distance: Short-Range vs Long-Range

Do you really need a 10km module for a 300m connection? Many customers unknowingly overspend by not matching

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra

SFP Optical Transceiver Modules for Long Distance: A Complete

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission.

Fiber Optic Max Range: 10G/40G/100G, SFP LR/ZR | Elfcam

This guide explains the principles of the optical budget, gives the actual distances by standard and by data rate, and

Five Things to Know About the Future of Long Distance Optics

In a metro networks, modules can reduce the capex and opex associated with connectivity by up to 75%.

SFP Distance Explained: Real-World Range, Limits, and Optics

Understand SFP distance, fiber optic range, and real-world limits of SR/LR modules. Learn how wavelength, fiber

OC-3/STM-1 SFP 150km Transceiver

Supporting 150km transmission over single-mode fiber at 1550nm wavelength, this 100/155M SFP module delivers outstanding 36

Contact Us

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