

Article Overview

Key manufacturers of 80km optical modules include Coherent Corp., Cisco (Acacia), Innolight, Accelink, and Eoptolink, among others, specializing in long-reach SFP transceivers for telecom and data center networks.

Overview of 80km Optical Modules

SFP 80km modules are long-reach fiber optic transceivers designed to transmit Gigabit Ethernet signals over single-mode fiber for distances up to 80km. They typically operate at 1550nm wavelength and use high-power lasers with sensitive receivers to maintain signal integrity over long spans without intermediate amplification. These modules are widely deployed in metropolitan area networks, telecom access networks, and enterprise backbone links .

Leading Manufacturers

- o Coherent Corp. (formerly II-VI Incorporated, US) Coherent is a major global supplier of optical components and subsystems, including long-reach SFP modules. They serve hyperscale data centers, telecom networks, and AI-centric infrastructure, leveraging coherent optics technology for high-performance transceivers .
- o Cisco Systems, Inc. (US, via Acacia Communications) Cisco produces high-end optical modules through its Acacia acquisition, focusing on coherent optics and pluggable modules suitable for long-distance transmission, including 80km SFPs .
- o Zhongji Innolight Co., Ltd. (China) Innolight specializes in high-speed optical communication modules, including 80km SFPs, 100G, 200G, and 400G modules. They provide solutions for cloud data centers, 5G fronthaul, midhaul, and backhaul networks, and are recognized for their global market share in long-reach optics .
- o Accelink Technology Co., Ltd. (China) Accelink offers a broad portfolio of optical transceivers, including long-haul modules for metro and access networks. Their vertically integrated production ensures scalable and cost-competitive 80km SFP modules .
- o Eoptolink (Chengdu, China) Eoptolink focuses on high-performance optical modules and devices, including long-reach SFPs for data centers, telecom networks, and smart grid applications. They are certified as a national high-tech enterprise and provide solutions for FTTx, LTE, and enterprise networks .
- o Other notable manufacturers
 - o StarTech.com Ltd. and EnGenius Technologies (US) produce SFP modules for enterprise networking, though primarily for shorter distances .
 - o Huagong Tech, Linktel, CIG Shanghai also participate in the optical module market, offering long-reach solutions for telecom and data communication applications .

Key Considerations

Main Manufacturers of 80km Optical Modules

When selecting 80km optical modules, network engineers typically evaluate:

- o Optical power budget to compensate for fiber attenuation
- o Receiver sensitivity for stable long-distance transmission
- o Compatibility with existing SFP interfaces and network equipment
- o Deployment environment, including temperature and humidity tolerance . These manufacturers provide a range of high-performance, long-reach SFP modules suitable for connecting distant network nodes, aggregation layers, or regional data facilities without requiring intermediate repeaters.

10GBASE-ZR SFP+ for 80km single-mode fiber. 1550nm, 23 dB link budget, DOM, STM-64. EU stock + lifetime warranty. EUR80.33.

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SFP Transceiver - Gigabit Fiber Singlemode 80km Item number GSFIBER-SFP-80K The GSFIBER-SFP

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for

In today's data-driven world, the demand for high-speed, reliable, and long-distance optical connectivity continues to

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Main Manufacturers of 80km Optical Modules Are you curious about which optical module manufacturers stand out in today's

Overall, the market share and ranking of Chinese optical module suppliers has gradually increased over the past few

Explore 80km SFP optical modules: transmission principles, deployment scenarios, performance features, installation



Main Manufacturers of 80km Optical Modules

QSFP 40G 80km modules must be verified for switch compatibility, vendor coding, and optical interoperability before deployment,

The following sections examine the key technologies, performance metrics, deployment considerations, and practical applications

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