

# How much does a fiber optic transceiver connector cost

## Article Overview

Fiber optic transceiver connectors typically range from EUR20 to over EUR500 per unit, depending on type, data rate, and transmission distance.

## Price Overview

The cost of fiber optic transceivers varies widely based on specifications and form factors:

- o SFP (Small Form-factor Pluggable): Commonly used for 1G to 10G connections, prices generally start around EUR20-EUR50 for standard modules and can go up to EUR100-EUR150 for longer-distance or higher-quality versions (single-mode, long-range) .
- o SFP+: Supports higher data rates up to 10G, with prices typically ranging from EUR50-EUR200, depending on vendor and distance .
- o QSFP/QSFP28: Used for 40G to 400G connections, these modules are more expensive, often EUR200-EUR500+ per unit, especially for 100G or 400G transceivers .
- o Specialty or long-distance modules: Modules supporting distances over 80 km or with enhanced diagnostics can cost significantly more, sometimes exceeding EUR500 .

## Factors Affecting Price

- o Data Rate: Higher-speed modules (10G, 25G, 40G, 100G, 400G) are more expensive than standard 1G modules.
- o Transmission Distance: Single-mode long-range transceivers cost more than short-range multimode modules.
- o Form Factor: SFP, SFP+, SFP28, QSFP28, and QSFP-DD differ in price due to design and compatibility.
- o Vendor and Compatibility: OEM modules from major switch or router vendors are usually pricier than third-party alternatives, though high-quality third-party modules can offer cost-effective options .
- o Additional Features: Modules with Digital Diagnostics Monitoring (DDM) or enhanced temperature tolerance may have higher prices.

## Where to Purchase

- o Mouser Europe: Offers a wide selection of fiber optic transceivers with pricing filtered by quantity .
- o DigiKey: Provides in-stock modules with same-day shipping and detailed specifications .
- o Fiber24 and FS.com: European suppliers offering SFP, SFP+, QSFP, and high-speed modules with fast shipping and return options .
- o Fibermarkt.com: Offers reliable third-party transceivers compatible with major vendors, often at lower prices than OEM modules . When purchasing, consider the required data rate, distance, and compatibility with

# How much does a fiber optic transceiver connector cost

your network equipment to select the most cost-effective module.

Although the total cabling pricing is much higher than standard LC, SC, or FC connectors, the MPO fiber optic

See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by

Discover the average fiber optic cable installation cost, including key factors that impact pricing, and learn how to

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center

Additional Costs in Fiber Optic Projects Apart from the cables and direct installation services,

Multi-Mode Fiber Back to Top The key difference between Multi-Mode (MM) and Single-Mode (SM) fiber optic cable is the core

FS provides 50/25/10/1G transceivers modules in SFP/SFP28/SFP56/QSFP28 form factor, supporting

A fiber optic transceiver converts electrical signals to light, enabling fast, reliable data transmission across networks

SFP transceivers usually have a fibre LC connector and work with either single mode optical fibre (single-mode SFPs) or multimode

Fiber optic transceiver modules are fiber cable adaptive housings that contain a light source for transmitting data via fiber optic cable

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical

1. Compatibility with Network Equipment One of the first things to consider when choosing a fiber optic transceiver is

The fiber optic transceiver modules can work in any network architecture through professional capabilities and in-house lab test.

## How much does a fiber optic transceiver connector cost

A fiber optic transceiver (also called an optical transceiver) is a compact module that both transmits and receives data

Shop DigiKey's large in-stock selection of Fiber Optic Transceiver Modules. View inventory, pricing and

FS Transceivers offers high-performance optical transceivers, fiber optic modules, and data center connectivity solutions. Compatible

Web: <https://www.supremeacademicresearch.co.za>

