# How much does a 40G optical transceiver module cost



## Overview

Optical Transceiver Pricing: Cost Ranges by Speed and TypeThis article compares typical cost ranges across speeds and transceiver types, explains why price.

## Key Takeaways

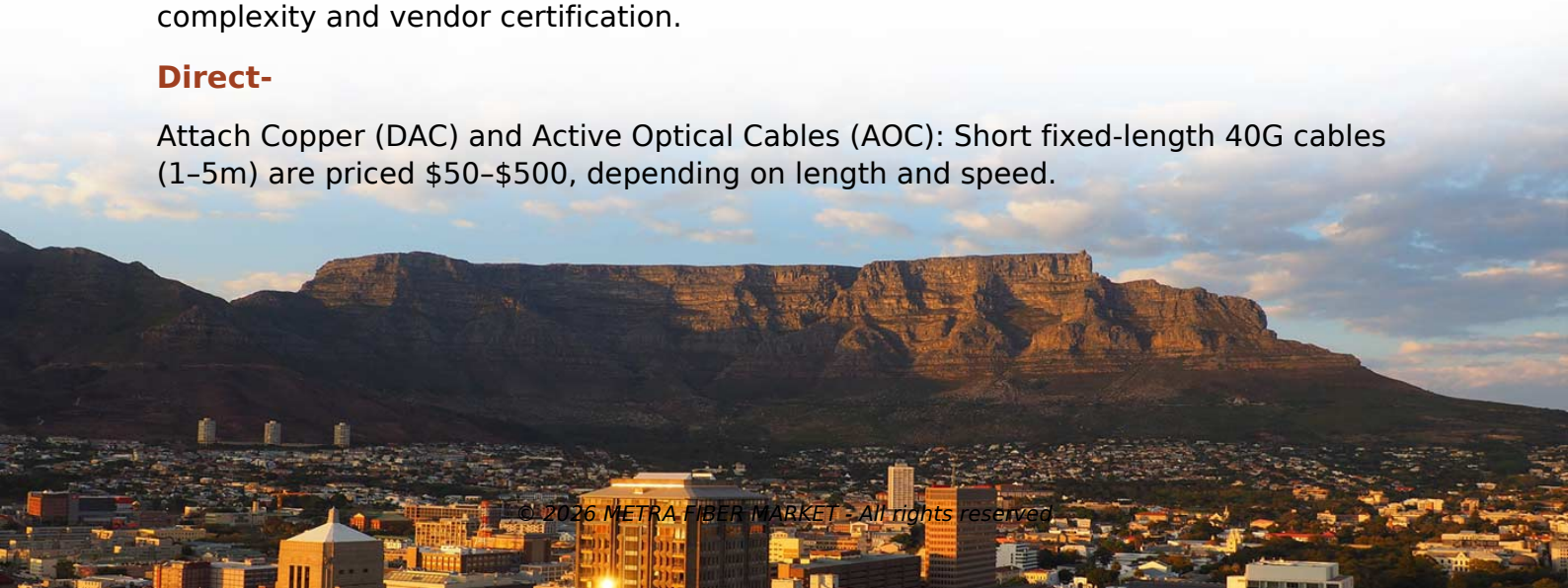
A 40G optical transceiver module typically costs between $40 and $1,000, depending on type, reach, and brand. Price RangesShort-Reach (SR4) Modules: Compatible 40G SR4 modules for multimode fiber are the most cost-efficient, generally priced between $40 and $150 per unit, making them ideal for data center interconnects and short-distance applications (up to 150m–400m).

### Long-

Reach (LR4) Modules: Single-mode LR4 modules, suitable for distances up to 10km, are more expensive due to the use of DFB lasers and wavelength multiplexing, typically costing around $299 per unit. Extended Reach (ER4) and Specialized Modules: Modules designed for longer distances or specialized applications, such as 20km–80km links or DWDM, can cost $300 to $1,000+, reflecting the added optical complexity and vendor certification.

### Direct-

Attach Copper (DAC) and Active Optical Cables (AOC): Short fixed-length 40G cables (1–5m) are priced $50–$500, depending on length and speed.



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### Factors Affecting Cost

Technology and Components: VCSEL-based SR modules are cheaper, while single-mode DFB lasers, coherent optics, and DWDM components increase cost. Brand and Certification: OEM-branded or vendor-certified modules include warranty and compatibility guarantees, which raise the price compared to third-party compatible modules. Reach and Fiber Type: Multimode SR modules are less expensive than single-mode LR or ER modules due to simpler optical design.

Volume and Market Maturity: Bulk purchases and widely adopted modules reduce per-unit cost, whereas niche or low-volume modules remain expensive. Example Pricing from VendorsFS.com: 40G LR4 QSFP+ module priced at $299, SR4 modules starting around $43–$150. Fibrecross OEM/ODM: 40GBASE-SR4 QSFP+ at $43, 40GBASE-LR4 SMF at $299, high-performance short links around $249.

In summary, 40G optical transceiver modules range from $40 for basic short-reach compatible units to over $1,000 for long-reach or specialized modules, with pricing influenced by reach, fiber type, brand, and certification.

## Article Content

Optical Transceiver Pricing: Cost Ranges by Speed and Type

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical guidance for choosing the right optics for a given budget and performance

40G QSFP+ Transceiver Modules | Optical Transceivers

Click to get your 40G QSFP+ transceiver modules from nearby warehouses. 30-Day Free Return. Trusted by 260K+ Enterprise Users.

40G QSFP+ Optical Transceiver Modules | FiberMall

As a highly integrated 4-channel optical module, 40G QSFP LR4 PSM has a higher port density and is more cost-effective for the entire system''s operation.

40G QSFP+ Optical Transceivers | Transceiver Modules

Get cost-effective 40G QSFP+ transceivers at QSFPTEK online store for high-performance 40GbE connectivity. QT QSFP+ includes 40GBASE-SR4/LR4/ER4/ZR4, from 150m to 80km.

40G QSFP+ Transceiver Modules | SR4, LR4, ER4 & Breakout Optics

Shop a wide range of 40G QSFP+ optical modules, including 40GBASE-SR4, LR4, and ER4. Our QSFP+ transceivers support 4x10G breakout mode for high-density 10G deployments. Ideal for data

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Custom 40G QSFP+ Optical Transceiver Module-OEM & ODM

The 40G QSFP+ OEM optical transceiver module price depends on reach and specifications but generally falls between US $200–$400 per unit in bulk orders . For example, a 40GBASE-SR4

40g optical transceiver module | Newegg

Search Newegg for 40g optical transceiver module. Get fast shipping and top-rated customer service.

25G/40G Optical Transceiver Modules

Buy 25G and 40G fiber optic transceivers for high-bandwidth migration at QSFPTEK online store. Cost-effective, compatibility guaranteed and same-day shipping.

40G QSFP+ Optical Transceiver Module | Fiber Optic Cable

The QSFPP-40G-SR4 is a parallel 40Gbps Quad Small Form-factor Pluggable (QSFP) optical module that provides increased port density and total system cost savings.

10Gtek 40G QSFP+ MPO Multi-Mode Transceiver, 40GBASE-SR4

Widely used in fiber switches, routers, NIC, server or other fiber optic equipments with 40Gb QSFP+ ports. 10Gtek focuses on developing high performance cable and transceiver solutions for data

Cisco 40GBASE QSFP Modules Data Sheet

Cisco QSFP-40G-SR-BD (40G BiDi) The Cisco QSFP 40-Gbps BiDirectional (BiDi) transceiver (Figure 1) is a pluggable optical transceiver with a duplex LC connector interface for short

Compatible Transceivers and MSA Guide | PHILISUN

Compatible optical transceivers can lower network upgrade cost, but only when they are selected and coded for the exact switch platform, port speed, fiber type, reach, and monitoring

Understanding High-Speed Transceiver Tests | 100G & 400G Optical ...

Understanding High-Speed Transceiver Tests in Fiber Networks Why Comprehensive Testing Is Essential for Reliable 100G, 200G, 400G, and 800G Optical Networks As network speeds

What is QSFP & QSFP+ Transceiver: An Ultimate

QSFP, Quad Small Form Factor Pluggable, typically 40G transceiver for data center and telecom applications. Check guide for everything about it.

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15km Optical Transceiver Buying Guide

The phrase "15km transceiver" refers to an optical module optimized for intermediate-to-long reach (Intermediate Reach / LR), typically using 1310nm or 1550nm wavelengths over Single-Mode Fiber

SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD,

The transceiver module is one of the most critical components in a high-performance network. Modern high-performance data network scenarios

What is Optical Transceiver: A Beginner Guide (2024)

What is an Optical Transceiver? An optical transceiver, also known as a fiber optic transceiver or optical module, is a small packaged device that

QSFP-40GB Transceivers Guide and Compatibility

It has four independent receive and transmit optical channels that can terminate to another 40G QSFP+ transceiver, or can be distributed to four separate 10 Gigabit SFP+ transceivers. The QSFP+

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

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