Price of 1G Pluggable Optical Module



Overview

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

Key Takeaways

The price of a 1G pluggable optical module typically ranges from $10 to $50 per unit, depending on type, distance, and vendor.

Overview1

G pluggable optical modules, such as SFP (Small Form-Factor Pluggable) transceivers or GBICs, are used for Gigabit Ethernet connections over fiber or copper networks. They come in multi-mode (MMF) or single-mode (SMF) variants, with transmission distances ranging from 100 meters to 160 kilometers. Modules may support standards like 1000BASE-SX, 1000BASE-LX/LH, or 1000BASE-T.

Price Factors

Transmission Distance: Short-range multi-mode modules (up to 550 m) are generally cheaper, around $10–$20, while long-range single-mode modules (up to 2 km or more) can cost $30–$50. Brand and Compatibility: OEM modules from Cisco or Ubiquiti may be priced higher than third-party compatible modules from vendors like FS or QSFPTEK. Features: Modules with digital diagnostics (DDM) or enhanced temperature monitoring may add to the cost.

Example VendorsFS: Offers a wide range of 1G SFP modules for fiber and copper, with flexible shipping options. Ubiquiti: 1G multi-mode optical modules supporting up to 550 m over duplex LC UPC connectors. Optcore: 1G SFP SX transceivers with 2 km reach and optional digital diagnostic interface.

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QSFPTE

K: Provides cost-effective 1G SFP Mini GBIC modules.

Summary

For budgeting purposes, expect to pay $10–$50 per 1G pluggable optical module, with the lower end for short-range multi-mode modules and the higher end for long-range single-mode or OEM-branded modules. Prices may vary depending on vendor, features, and shipping options.

Article Content

1G SFP Transceivers | Mini-GBIC SFP Modules

FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-T etc., from 100m to 160km, for

1G 1310nm 2km SFP SX Transceiver Module

Optcore''s OSP1250-312xCR is a high performance and cost effective small form factor pluggable (SFP) transceiver module for 1000BASE-SX Gigabit Ethernet

50/25/10/1G Transceiver Modules | Optical Transceivers

FS provides 50/25/10/1G transceivers modules in SFP/SFP28/SFP56/QSFP28 form factor, supporting transmission distances from 30m to 160km over SMF/MMF

1G SFP Optical Transceivers | SX, LX, TX Modules

Cost-effective 1.25Gbps SFP module with RJ45 interface, 100m range. Discover reliable and versatile 1G SFP optical transceivers fully compatible with Cisco,

Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

1G SFP Optical Transceiver Modules | Solid Optics

1G SFP optical transceiver modules for multi-mode and single-mode in distances ranging from 300 meters up to 80km with a limited lifetime warranty.

1G Multi-Mode Optical Module

SFP transceiver that supports 1G connections up to 550 m using multi-mode fiber with a duplex LC UPC connector.

1G SFP Mini GBIC | SFP Transceiver Modules

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Cisco MGBSX1 Compatible 1000BASE-SX SFP 850nm 550m DOM LC MMF Transceiver Module Allen Bradley Arista Avago +14 1G / Cisco / 550m / LC / MMF / SFP 8453 in real-time stock, 08Jul, 2026

Pluggable Optical Modules: Transceivers for the Cisco

The table below lists the Cisco Pluggable modules in the Cisco ONS family that have reached end-of-sale or end-of-life status, followed by their

Pluggables, Power, and Geopolitics: Mapping the 800G

While 400G deployments remain robust in traditional cloud networking, the “AI backend” network has standardized on 800G and is

The Rise of Co-Packaged Optics (CPO) and Silicon Photonics in

As generative AI models scale, traditional pluggable optical transceivers face a power-performance wall. Co-packaged Optics (CPO) and Silicon Photonics address this by integrating

Current OIF Work – OIF

The TP1/TP1a and TP4/TP4a electrical specifications will enable up to 224G full linear optical modules for Linear Pluggable Optics (LPO), co-packaged optics (CPO) and Near Package Optics (NPO),

Optical Transceiver Market Price Trends 2026: TCO & Risks

Discover the real engineering TCO behind optical transceiver market price trends in 2026. Explore 800G thermal risks, LPO failures, and hidden OPEX metrics.

Co-Packaged Optics (CPO) 2026: Complete Technical Guide

CPO switches are shipping in 2026. Learn how co-packaged optics work, which platforms are live, power savings vs pluggable, and what optics you still need.

BRKOPT-2699

Pluggable Optical Modules: QSFP-DD or OSFP Both variants support all the technical

Co-Packaged Optics — a deep dive | APNIC Blog

Cost: At present, CPO does not have a significant cost advantage over high-volume pluggable optics. As the volumes pick up, this equation should change. Thermal Management:

Cisco 40GBASE QSFP Modules Data Sheet

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Cisco QSFP-40G-CSR-S (S-Class) The QSFP-40G-CSR-S is a pluggable optical transceiver with a duplex LC connector interface used for connectivity using MultiMode Fiber (MMF).

EML vs VCSEL vs CW Laser: Optical Transceiver Guide (2025)

Compare EML, VCSEL, and CW laser technologies in optical transceivers. Covers cost, reach, speed, the 2025 EML shortage, and silicon photonics alternatives.

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

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