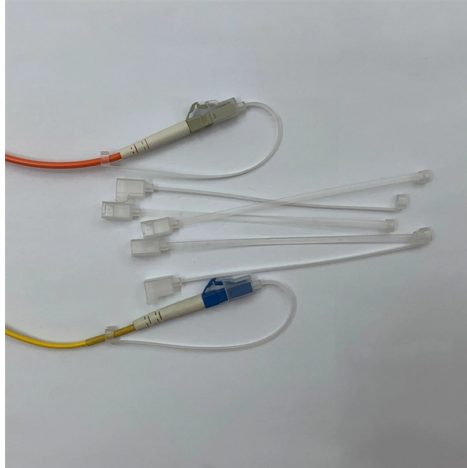


# Price List for 1G Tunable Optical Modules for Data Center Interconnection



## Overview

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.

## Key Takeaways

1G SFP optical modules typically range from \$5 to \$120 per unit, depending on brand, type, and reach. Types of 1G SFP Modules 1000BASE-SX (Short Wavelength): Designed for multimode fiber networks, supporting distances up to 550 meters, ideal for intra-building or campus connections. 1000BASE-LX (Long Wavelength): Suitable for single-mode or multimode fiber, supporting distances up to 10 kilometers, used for inter-building or campus-wide links.

1000BASE-TX (Copper RJ45 Interface): Provides gigabit connectivity over Cat5/5e/6 copper cables, supporting distances up to 100 meters, commonly used for short-range data center connections. Price Ranges Low-end / compatible third-party modules: \$5–\$25 per unit. These are generic SFPs compatible with multiple vendors and suitable for standard short-reach applications.

High-end / OEM-branded modules: \$60–\$120+ per unit. These include modules from Cisco, HPE, Juniper, and other major vendors, often with extended temperature ranges or industrial specifications.



## Factors Affecting Price

**Brand and Warranty:** OEM-branded modules include vendor support, warranty, and guaranteed compatibility, which increases cost. **Reach and Optics Type:** Short-reach VCSEL-based modules are cheaper, while long-reach single-mode DFB or industrial-grade modules command higher prices. **Volume and Market Maturity:** Higher production volumes and commodity modules reduce cost, whereas niche or low-volume modules remain expensive.

**Module Technology:** Modules with advanced features like digital diagnostics, extended temperature range, or special wavelength lasers are priced higher.

## Purchasing Considerations

**Compatibility:** Ensure the SFP module is compatible with your existing switches, routers, or NICs. Most 1G SFPs are hot-pluggable and follow the MSA standard. **Use Case:** Choose SX for short-range, LX for long-range fiber, and TX for copper connections within data centers.

**Budget vs Reliability:** Third-party modules are cost-effective, but OEM modules provide guaranteed performance and support, which may be critical for mission-critical data center links. By considering these factors, data center operators can select the appropriate 1G SFP modules that balance cost, performance, and reliability.

## Article Content

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 Transceivers | Mini-GBIC SFP Modules

Click to get your 1Gbps transceiver modules from nearby warehouses. 30-Day Free Return. Trusted by 260K+ Enterprise Users.

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

Discover reliable and versatile 1G SFP optical transceivers fully compatible with Cisco, Huawei, Juniper, Arista, and more. Choose from SX, LX, and TX modules.

1G SFP Mini GBIC | SFP Transceiver Modules

Buy QSFPTEK 1G SFP (small form factor pluggable) with wide selection of 200+ brands compatible, 1000base-sx SFP, 1000base-lx SFP, 1000base-t SFP and 10/20/40/80km.

## TSFP1G-100 (I)

The TSFP1G-100 (I) optical transceiver module supports 1G Ethernet transmission over ultra-long distances of 100+ kilometers using tunable dense wavelength division multiplexing (DWDM)

### 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 CWDM/DWDM SFP Transceiver Modules | Optical Transceivers

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### 1G SFP DWDM tunable transceivers simplify stock requirements

In-field tunable 1G SFP DWDM transceivers that can reduce 40 parts to 5 with a range of 8 channel wavelength requirements. Reduce inventory holding cost with our 1G DWDM tunables today.

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Price List for Low-Loss Active Optical Modules for Data Center Interconnection See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach

### Price List for Low-Loss Optical Modules for Data Center Interconnection

See practical price ranges for 1G-100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included. From low data rates to 800GB, we have

### 800G Digital Coherent Optics DCO Transceiver Market 2026-2034

Recent breakthroughs in digital signal processing and coherent detection have lowered the cost per gigabit for 800G modules. These technology gains improve signal integrity over long hauls,

### The Evolution of Optical Modules: 400G → 800G → 1.6T - A Strategic ...

Discover the evolution from 400G to 800G and 1.6T optical modules. Learn key technologies, CPO vs pluggable, and upgrade strategies for future-ready data centers.

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## Optical Component Startup Tracker

The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies

### Exhibitor List

Lessengers is an innovative optical solution provider, powered by its patent DOW technology enabling cost effective direct optical coupling without the use of lens optics, providing the most suitable

### Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

### 800G Client Optics in the Data Center

The next key development is 800G, and the industry is already gearing up to deploy this next generation of client optics in hyperscale data centers. Developments in three distinct areas are needed for 800G

### Transceiver Modules for Data Center Interconnect

Learn how and where to implement Cisco Optics solutions to gain the reach you need for connecting data centers across your metro areas and beyond.

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

