

Fiber Optic Module Types and Prices



AI Overview

Fiber optic module prices vary widely, typically ranging from \$10 for standard 10G SFP modules to over \$10,000 for high-end 400G QSFP-DD modules, depending on type, distance, and brand.

10G SFP Modules The cost of a 10G SFP+ module generally falls between \$10 and \$300, depending on the module type, transmission distance, and brand. Short-range SR modules, commonly used in data centers for distances up to a few hundred meters, are at the lower end of this range. Long-range LR modules, which use single-mode optics for longer distances, are more expensive due to tighter manufacturing tolerances and higher optical power requirements. Branded modules from major vendors can cost multiple times more than compatible third-party options, largely due to support contracts and vendor lock-in strategies.

400G QSFP-DD Modules For 400G QSFP-DD modules, prices are significantly higher. Entry-level SR8 modules for in-rack or short campus links typically cost \$1,400 to \$1,800, while long-haul coherent ZR+ modules can exceed \$130,000. The cost depends heavily on transmission distance, optical technology, and whether the module is OEM or third-party. Competitive third-party markets have compressed prices for mid-range modules, but high-performance long-distance modules remain expensive.

Factors Affecting Module Cost

- Transmission Distance:** Longer distances require single-mode optics and higher precision, increasing cost.
- Module Type:** SFP, SFP+, QSFP, QSFP-DD, and other form factors differ in price due to bandwidth and port density.
- Brand and Vendor:** OEM modules are often priced higher than compatible third-party modules.
- Optical Technology:** Coherent optics, DWDM, and advanced modulation increase module cost.
- Quantity and Bulk Purchasing:** Buying in bulk can reduce per-unit cost.

Summary

- Standard 10G SFP: \$10–\$300
- 400G QSFP-DD SR8: \$1,400–\$1,800
- High-end long-haul 400G modules: \$10,000–\$130,000+

Understanding your network requirements, including distance, speed, and vendor compatibility, is...

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Siemens Simatic NET Profibus 6GK1503-2CB00 OLM/G11 V4.0

6GK1503-2CB00 PROFIBUS OLM/G11 V4.0 optical link module with 1 RS 485 and 1 glass fiber optic cable interface (2 BFOC sockets), with signaling contact and test port

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Cisco 40GBASE QSFP Modules Data Sheet

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).

10Gtek 1.25G SFP 1000Base-LX Transceiver, 1310nm SMF Fiber Optic Module ...

10Gtek is a manufacturer of transceiver, customized service is available.
Manufacturer: 10Gtek. 1000BASE-LX/LH SFP to LC Optical Gigabit Ethernet Fiber transceiver module, 1.25G

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DIGITUS OS2 Fibre Optic Cable - 5 m - LC/APC to LC/APC - Simplex Fibre Optic Cable | SM Singlemode Fiber Optic LAN Cable - Fiber Type 9/125μ - FTTH, FTTB & FTTx - Yellow: Amazon :

SFP Module Types, SFP Transceiver Price List

FS SFP module solutions range from Fast Ethernet to Gigabit Ethernet speeds. fibre and copper SFP transceivers can be selected in connector type, fibre type and protocols to meet your requirements.

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What types of fiber modules exist, and how do they differ in wear ...

In this blog, I'll provide an overview of the most commonly used fiber modules - from SFP to QSFP28 - and explain how they perform under heavy AV workloads.

Contact Us

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