

Fiber Optic Module Models and Prices



Overview

Source over 636 fiber-optic modules for sale from manufacturers with factory direct prices, high quality & fast shipping.

Key Takeaways

Fiber optic modules come in various types such as SFP, SFP+, SFP28, QSFP, XFP, and CFP, with prices ranging from \$10 for basic 1G SFPs to several hundred dollars for high-speed 100G modules.

Common Fiber Optic Module Types

- SFP (Small Form-factor Pluggable): Supports 1G data rates, compatible with both single-mode and multimode fiber. Ideal for short to medium distances and widely used in enterprise networks .
 - SFP+: Enhanced SFP supporting 10G speeds. Backward compatible with SFP ports at reduced speed. Suitable for data centers and high-performance networks .
 - SFP28: Supports 25G Ethernet, compatible with SFP+ and SFP ports. Used in high-density, high-speed environments .
 - QSFP/QSFP+: Quad Small Form-factor Pluggable modules supporting 40G and 100G speeds. Common in data centers and AV over IP networks .
 - XFP: 10G modules designed for longer distances, often used in telecom applications .
 - CFP: Supports 100G Ethernet, typically used in high-bandwidth backbone networks .
- Fiber Type Compatibility
- Multimode Fiber (MMF): Uses 850 nm VCSEL lasers, suitable for short-range connections (up to 550 meters). Less expensive and ideal for intra-building or campus networks

- Single-mode Fiber (SMF): Uses 1310 nm or 1550 nm lasers, supports long-distance transmission (up to tens of kilometers). More expensive but essential for metro and long-haul networks .

Pricing Overview

- 1G SFP modules: Typically \$10–\$50 depending on brand and fiber type .
 - 10G SFP+ modules: Around \$50–\$150 for standard modules; industrial-grade or long-distance variants may cost more .
 - 25G SFP28 modules: Approximately \$100–\$200 .
 - 40G QSFP/QSFP+ modules: \$150–\$400 depending on distance and vendor .
 - 100G CFP/QSFP28 modules: \$400–\$800 or higher for long-haul or specialized applications .
- #### Selection Considerations
- Distance and wavelength: Choose modules based on required transmission distance and fiber type.
 - Port compatibility: Ensure the module matches the switch or router port (SFP, SFP+, SFP28, QSFP, etc.).
 - Environmental factors: For AV or industrial networks, consider heat tolerance, dust, and continuous operation requirements .
 - Vendor and warranty: OEM modules may be more expensive but offer guaranteed compatibility; third-party modules are cost-effective but require careful verification .
- By understanding these module types, fiber compatibility, and price ranges, network designers can select the most suitable optical transceivers for their infrastructure needs.

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An SFP (Small Form-Factor Pluggable) is a compact, hot-pluggable transceiver used in telecommunications and data networks for

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