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 .

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• 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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