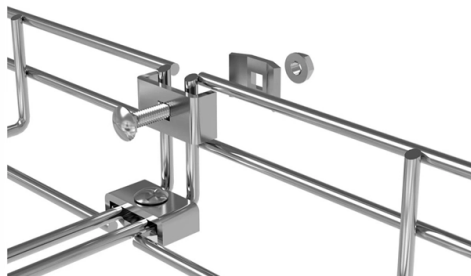


Price of SFP optical module QSFP28



Overview

The price of a QSFP28 module depends on the module type, reach, coding, temperature grade, warranty, order quantity, and supplier. Compatible QSFP28 SR4 modules can start around \$35.

Key Takeaways

QSFP28 modules typically range from \$35 to \$280 depending on type and vendor, while SFP+ modules cost around \$20 for 10G connectivity. QSFP28 Pricing Overview QSFP28 modules, designed for 100G Ethernet, vary widely in price based on reach, vendor, and specifications. Common market prices in 2026 are: Short-reach (SR4) modules: starting at \$35 for third-party compatible options, delivering 100G over multimode fiber.

Long-reach (LR4) modules: around \$280 for OEM versions supporting 10 km single-mode fiber. High-end modules (ER4, ZR4): can reach several thousand dollars for OEM units, especially for extended reach up to 80 km. Third-party modules often meet the same optical and electrical specifications as OEM modules, including 100GBASE-SR4, LR4, CWDM4, ER4, or ZR4, but differences may exist in EEPROM coding, firmware, warranty, and vendor support.

Typical power consumption ranges from 3.5W to 4.5W depending on reach and design.

SF

P and SFP+ Pricing SFP modules: support lower speeds, typically up to 4.25 Gbps, and are widely used in legacy or low-bandwidth networks. SFP+ modules: standard for 10G Ethernet, costing around \$20 per module, which equals \$2 per Gbps.

While QSFP28 has a higher upfront cost, it provides much lower bandwidth cost—for example, a \$35 QSFP28 SR4 module delivers 100G, equating to \$0.35 per Gbps, making it more cost-efficient for high-speed deployments.

Key Considerations

Compatibility: Ensure modules match your switch platform and fiber type. Vendor choice: OEM modules offer official support, while third-party modules are more cost-effective. Deployment scale: Bulk purchases can significantly reduce per-Gbps cost.

Future scalability: QSFP28 supports 100G and can be used in breakout configurations for 25G lanes, providing a smoother upgrade path compared to jumping from 10G to 100G. In summary, QSFP28 modules are ideal for high-speed, cost-efficient 100G networks, while SFP/SFP+ modules remain suitable for lower-speed or legacy deployments, with pricing reflecting both performance and vendor support considerations.

Article Content

QSFP28 Price Guide 2026: 100G Transceiver Costs & TCO

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7. Cost Analysis SFP being one of the earliest modules, its price has relatively stabilized and is a fit for enterprises on a tight budget. SFP+ and SFP28, though initially pricier due to their

SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28 vs QSFP-DD vs

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