

How much does a 48-port all-optical switch cost



Article Overview

A 48-port all-optical switch typically costs between \$2,000 and \$15,000, depending on features, vendor, and optical capabilities.

Price Overview

The cost of a 48-port all-optical switch varies widely based on brand, performance, and features. Entry-level or SMB-focused switches with 48 ports and a few SFP+ optical uplinks can start around \$2,000–\$3,500, such as D-Link or TP-Link models with 4–8 SFP+ ports for high-speed uplinks. Mid-range enterprise switches with full 48-port optical support, higher throughput, and advanced management features can range from \$5,000 to \$10,000. High-end data center switches, such as Cisco MDS or Catalyst series with 48 fully optical ports and advanced Layer 3 or Fibre Channel support, can exceed \$12,000–\$15,000.

Factors Affecting Cost

- **Port Type and Speed:** 10G, 25G, or 40G SFP+ or QSFP+ ports increase cost compared to standard Gigabit Ethernet ports with a few optical uplinks.
- **Management Features:** Managed switches with Layer 3 routing, QoS, VLANs, and security features are more expensive than unmanaged or smart switches.
- **PoE Support:** Switches with Power-over-Ethernet (PoE/PoE+) add to the price, especially if the total power budget is high.
- **Redundancy and Reliability:** Hot-swappable power supplies, dual images, and high...

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