

What is the price of an optical port on a switch



AI Overview

A single optical port on a switch typically costs between \$5 and \$900, depending on speed, type, and vendor. Price Ranges by Speed and Type

- 1G SFP ports: Compatible or generic modules can cost \$5–\$25, while OEM-branded modules range from \$60–\$120 for short-reach or industrial-grade units.
- 10G SFP+ ports: Compatible 10G SR modules often sell for tens of dollars, whereas OEM or long-reach LR/ER modules can cost hundreds of dollars.
- 25G SFP28 ports: Low-cost compatible modules start around \$16–\$80, while branded or single-mode enterprise modules can reach \$200–\$900.
- 40G QSFP+ ports: Compatible SR4 modules are priced \$40–\$150, with LR4 or WDM modules costing \$300–\$1,000+.
- 100G QSFP28 ports: Short-reach MMF modules are relatively affordable, but carrier-grade DWDM or coherent long-haul modules are significantly more expensive.

Factors Affecting Cost

- Vendor and Brand: OEM-branded modules (Cisco, HPE, Juniper) are more expensive than third-party or compatible modules.
- Reach and Technology: Long-range, single-mode, or specialized modules (DWDM, BiDi, coherent optics) carry higher premiums.
- Switch Type: Managed vs unmanaged, industrial vs commercial, and modular vs fixed-port switches can influence the overall cost per port.
- Flexibility: SFP ports are modular and hot-swappable, allowing a single port to support multiple media types (fiber or copper) depending on the inserted transceiver.

Practical Considerations

- Combo Ports: Some switches offer SFP combo ports, which share a single logical interface between copper and fiber, providing flexibility without extra cost.
- Budgeting: For enterprise or data-center deployments, balancing CAPEX savings with compatibility and warranty assurances is key when choosing between OEM and third-party modules.
- Deployment: SFP, SFP+, and SFP28 ports allow scalable network expansion without...

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3 Ports Mini Industrial Gigabit Ethernet Switch 10/100/1000Mbps RJ45, 100/1000Base-X SFP Port Din Rail Network Switch Unmanaged Optic Fiber Switch 12-48V DC (No Power Supply or Cord) Model #:

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