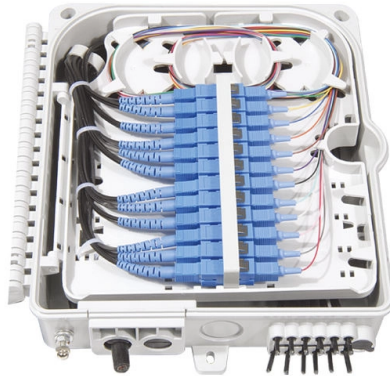


Price of 400G Optical Network Switch



AI Overview

400G optical switches typically range from \$100,000 to over \$1 million, with 400G optical modules costing \$1,500 to \$4,000 per unit depending on type and vendor.

Switch Hardware Costs High-performance 400G switches and routers are a major investment. Prices vary based on port density, configuration, and brand, with typical units ranging from \$100,000 to over \$1 million. Modern 400G switches consolidate multiple 100G ports into a single 1RU chassis, improving rack efficiency, reducing power consumption by ~40%, and lowering cooling requirements. This consolidation also reduces fiber management complexity and overall operational costs.

Optical Module Costs The cost of 400G optical modules depends heavily on form factor, reach, and vendor:

- Short-reach SR8 modules (in-rack connections) cost \$1,400–\$1,800 from third-party vendors.
- DR4 and FR4 modules (cross-row or campus links) are moderately priced, with third-party competition driving cost compression.
- LR4, ZR, and ZR+ modules (long-haul or DCI) can exceed \$10,000–\$130,000 per unit, especially from OEMs.

Coherent optics for long-distance connections are the most expensive but provide higher efficiency and reach. QSFP-DD and OSFP are the most common 400G form factors, with QSFP-DD dominating data center deployments.

Total Cost of Ownership (TCO) Considerations Beyond hardware and module costs, TCO includes:

- Power consumption:** 400G switches typically draw 1,500–3,000 watts, with modules consuming up to 20W per port.
- Cooling requirements:** High-density deployments require advanced air conditioning or liquid cooling, increasing operational expenses.
- Rack efficiency:** Consolidating 400G ports reduces the number of chassis and cables, lowering both CapEx and OpEx.

Market Trends The cost-per-bit of 400G has recently dropped below 100G, making 400G switches economically viable for both greenfield and brownfield deployments. Third-party vendors offer significant savings compared to OEMs, particularly for short- and medium-reach mo...

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Contact Us

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