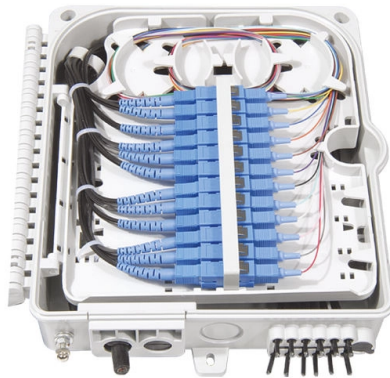


Price Trends of 400g Optical Modules



Summary of Content

The price of a 400G optical module ranges from approximately \$1,400 for short-reach SR8 modules to over \$130,000 for long-haul ZR+ modules, depending on type, reach, and vendor.

Pricing Overview

- **Short-Reach (SR8) Modules:** Designed for in-rack or cross-row connections, these modules are the most economical, typically priced between \$1,400 and \$1,800 from reputable third-party vendors .
- **Medium-Reach (DR4/FR4) Modules:** Used for inter-row or campus links, prices are higher due to more advanced components, but competitive third-party markets have compressed costs significantly .
- **Long-Reach (LR4, ZR, ZR+) Modules:** Intended for data center interconnects (DCI) or long-haul transmission, OEM LR4 modules can exceed \$10,000, while ZR+ modules may surpass \$130,000 .

Factors Affecting Price

- **Form Factor and Compatibility:** QSFP-DD and OSFP modules differ in size, thermal management, and integration complexity, affecting cost by 5-15% or more .
- **Components and Materials:** DSP chips (\$150-\$300), lasers (VCSELs for SR4, EML/DFB for FR4/LR4), connectors, and specialty metals contribute significantly to the bill of materials .

Article Content

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The Definitive 400G Optical Transceiver Guide: Selection, Deployment, and TCO for 2025 The definitive guide to

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400G optical transceiver shipments to triple by 2025

AI servers rely heavily on optical transceivers to convert electrical signals into optical signals, transmit them via optical

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LightCounting: The demand for 400G/800G optical modules exceeds

Currently, the demand for 4x100G and 8x100G optical modules exceeds the supply by 100%, and many customers

400G Optical Module Market Report | Global Forecast From 2025 To

Pricing maturation for 400G modules, declining approximately \$400-500 per port in 2025 from \$1,200-1,500 in 2021,

Contact Us

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