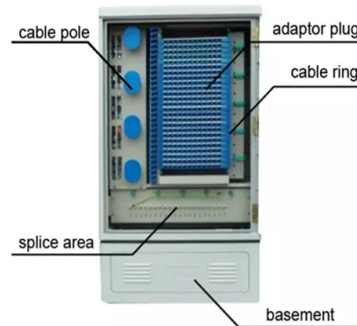


Price OSFP optical module 400G



Article Overview

400G OSFP optical modules typically range from \$2,000 to \$6,000 per unit, depending on form factor, optical reach, modulation, and brand.

Price Overview

The cost of a 400G OSFP (Octal Small Form-factor Pluggable) optical module varies widely due to multiple factors. Standard short-reach modules like SR8 for 100m multimode fiber often start around \$2,000–\$3,000, while longer-reach modules such as DR4, DR4+, FR4, or LR4 for distances up to 2 km or more can range from \$3,500 to \$6,000 or higher. Premium brands with extended warranties or certified interoperability may add a 20–30% price premium over generic modules.

Factors Affecting Price

- **Form Factor and Compatibility** OSFP modules are slightly larger than QSFP-DD modules, offering better thermal dissipation and supporting advanced PAM4 DSP chips. The larger footprint and niche market share can increase per-unit costs by 5–15% compared to QSFP-DD.
- **Optical Reach and Modulation** Modules using PAM4 signaling for 400Gbps over 4 lanes require advanced DSP chips, adding 20–40% to the cost compared with NRZ-based 100G modules. Long-reach DWDM or ZR4 modules for metro and long-haul networks are significantly more expensive due to external amplifiers and tighter channel spacing.
- **Brand, Warranty, and Certification** Well-known OEMs like InnoLight or FS provide certified modules with 2–3 year warranties, which increases cost. Generic or white-box modules are cheaper but may lack extended support

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