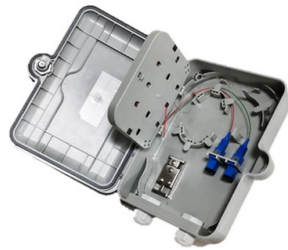


Price of Large-Head Optical Modules



Article Overview

Large-head optical modules, such as 400G and 800G transceivers, typically range from \$600 to \$1,900 per unit depending on type, reach, and volume discounts.

Typical Price Ranges

- 400G QSFP-DD modules: \$600–\$800 per unit for standard modules .
- 800G OSFP-DR8 modules: \$1,100–\$1,400 per unit for volume orders of 1,000+ units .
- 800G QSFP-DD-DR8 modules: \$1,000–\$1,300 per unit for large-volume purchases .
- 800G OSFP-FR4 modules (longer reach, more complex optics): \$1,500–\$1,900 per unit .
- 800G LPO (Linear Pluggable Optics): \$700–\$900 per unit, typically lower cost due to no DSP .

Factors Affecting Price

- Vendor Tier: OEM modules from Cisco, Arista, or similar brands can cost 30–50% more than third-party compatible modules .
- Volume Discounts: Orders over 1,000 units may receive 10–20% discounts, while orders over 5,000 units can get 20–30% off .
- Technology Maturity: Early-generation modules cost 40–60% more than mature products .
- Customization: Special wavelengths, extended temperature ranges, or additional testing can add 15–30% to the base price .
- Market Dynamics: Supply constraints or high demand for AI and cloud data centers can temporarily increase prices by 20–40%

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