

Price of 1 6T optical module QSFP



Article Overview

1.6T QSFP/OSFP optical modules typically range from \$3,000 to \$6,000 per unit, depending on vendor, form factor, and specifications.

Market Overview

1.6T optical modules, often in OSFP or QSFP-DD form factors, are designed for AI data centers, hyperscale cloud networks, and high-performance computing (HPC) clusters . These modules support extremely high bandwidth, with each electrical lane operating at 200–224G using PAM4 modulation, and rely on advanced DSPs, EML lasers, or silicon photonics for signal integrity . The high-performance requirements and emerging technology contribute to their premium pricing.

Price Factors

- **Form Factor:** OSFP modules generally offer better thermal management and higher density than QSFP-DD, which can slightly affect cost .
- **Vendor and Compatibility:** Modules from established vendors like FS or QSFPTEK, especially those tested for NVIDIA InfiniBand XDR systems, may command higher prices due to guaranteed interoperability .
- **Technical Specifications:** Single-mode vs multi-mode, reach (DR, FR, LR), and power consumption influence pricing. Modules with silicon photonics integration or longer reach tend to be more expensive .
- **Market Demand:** Rapid adoption in AI and HPC environments has increased demand, with forecasts projecting 3–5 million units in 2025, contributing to a market capitalization exceeding \$1 billion . Supply chain maturity is improving, but high-sp...

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1.6T OSFP DR8 MPO-16 Optical Transceiver | FiberMall

FiberMall OSFP-1.6T-DR8 transceiver is a high-performance optical module with a maximum transmission distance of 500m, suitable

Contact Us

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