

How much does a 10G enterprise-grade optical router cost



AI Overview

Enterprise-grade 10G optical routers typically cost between \$1,000 and \$10,000 or more, depending on features, brand, and port configuration. Price Range Overview The cost of a 10G enterprise-grade router varies widely based on port count, optical technology, and vendor. Entry-level enterprise routers with a few 10G SFP+ ports can start around \$1,000–\$2,500, while high-end models with multiple 10G ports, advanced routing features, and carrier-grade reliability can exceed \$10,000 per unit (Cisco, Huawei, TP-Link) . For example, the TP-Link ER8411, an enterprise VPN router with 10G uplink/downlink capabilities, is available on Amazon and is designed for large-scale deployments such as offices, schools, and hotels, supporting over 1,000 clients and multiple VPN connections . Factors Affecting Cost Port Type and Count: Routers with more 10G SFP+ or RJ45 ports cost more. Modular designs for future expansion increase price . Optical Modules: 10G SFP+ modules themselves range from \$10 to \$300 depending on distance, brand, and type (SR, LR, or compatible third-party modules) . Enterprise Features: Advanced routing protocols, VLAN support, AI-powered network management, and security features (firewalls, VPNs, intrusion detection) add to the cost . Brand and Support: Cisco, Juniper, and Huawei routers are typically more expensive due to brand reputation, support contracts, and reliability guarantees . Practical Considerations Deployment Scale: Larger networks with multiple 10G links require higher-end routers. Future-Proofing: Modular routers allow adding ports or upgrading optics without replacing the entire device. Total Cost of Ownership: Consider ongoing support, licensing, and maintenance in addition to the initial purchase price. In summary, a 10G enterprise-grade optical router is a significant investment, with prices ranging from \$1,000 for smaller deployments to over \$10,0...

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