Price list for OSFPOTN routers for data center interconnection



Overview

Price list for new optical line terminals for data center interconnectionExplore the comprehensive cost analysis of Optical Line Terminal (OLT) technology.

Key Takeaways

OSFPOTN routers and 400G OSFP transceivers for DCI can range from $1,400 for short-reach modules to over $130,000 for long-haul coherent optics, with router prices varying by vendor and configuration.

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P Transceiver PricingOSFP (Octal Small Form-factor Pluggable) modules are designed for ultra-high-speed Ethernet and data center interconnects, supporting 400G and 800G rates. Pricing depends on module type, reach, and vendor: Short-reach SR4 modules (in-rack or cross-row connections) cost approximately $1,400–$1,800 from reputable third-party vendors. Medium-reach DR4/FR4 modules (between data center rows or campus links) are competitively priced, often slightly higher than SR4 due to longer reach.

Long-reach LR4, ZR, and ZR+ modules (for DCI over metro or long-haul distances) can exceed $10,000 for OEM LR4 and $130,000 for coherent ZR+ modules. Third-party alternatives may offer 60–70% of OEM pricing for 800G modules.

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OSF

P modules feature optimized thermal architecture and support 8 high-speed lanes, making them suitable for high-bandwidth switch-to-switch or switch-to-NIC connections.

Router Pricing and Options

Data center routers compatible with OSFPOTN modules vary by vendor, throughput, and features: Cisco 8000 Series Routers with SONiC NOS support disaggregated, high-capacity DCI deployments.

Huawei Net

Engine 8000 series and Arista 7500R provide scalable interconnectivity for large data centers.

Edgecore and HPE Flex

Fabric routers offer open networking solutions with competitive pricing and support for high-speed optical modules. Exact router prices depend on port density, throughput, and optional features. For example, high-end DCI routers with multiple 400G/800G OSFP ports can range from $50,000 to $250,000 or more, depending on vendor and configuration.

Recommendations

For short-distance in-rack or cross-row connections, SR4 OSFP modules and mid-range routers provide cost-effective solutions. For long-haul DCI, coherent ZR/ZR+ modules and high-capacity routers are required, which significantly increases costs. Consider third-party OSFP modules to reduce TCO while ensuring compatibility with your router platform.

Request vendor quotes for precise pricing, as volume discounts and support packages can affect total cost. By combining OSFP module selection with the appropriate router platform, data center operators can optimize both performance and cost for high-speed interconnect deployments.

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