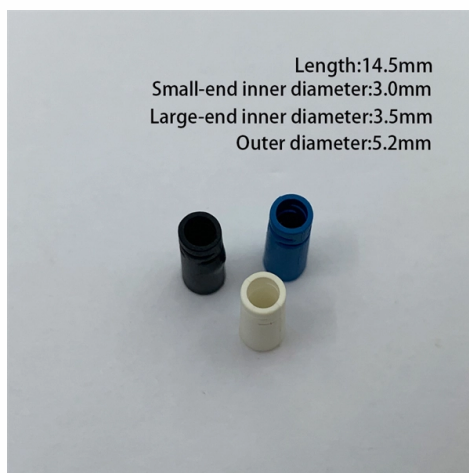


Saudi Arabian Cost of SFP Optical Modules QSFP-DD



Overview

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Key Takeaways

QSFP-DD optical modules in Saudi Arabia typically range from USD 1,500 to USD 4,000 per unit, depending on speed, reach, and brand. Market Overview

QSFP-DD (Quad Small Form-factor Pluggable Double Density) modules are high-speed optical transceivers used for 400G and beyond data center and telecom applications. In Saudi Arabia, demand is driven by Vision 2030 projects, hyperscale data centers, and 5G network expansion, particularly in cities like Riyadh, Jeddah, and NEOM . The market is heavily import-dependent, with over 85% of modules sourced from China, Taiwan, the US, and Europe . Local assembly is still emerging, which can affect lead times and pricing.

Pricing Factors

- **Module Type and Speed:** QSFP-DD 400G modules are more expensive than QSFP28 100G or SFP28 25G modules. Prices vary based on reach (SR, LR, LR8) and PAM4 vs NRZ signaling .
- **Brand and Compatibility:** Modules from Cisco, Juniper, HPE, Dell, and Huawei may carry a premium due to guaranteed compatibility and warranty .

- **Environmental Specifications:** Industrial-grade modules with extended temperature ranges for Middle Eastern climates are priced higher .

- **Market Trends:** Average selling prices for high-speed pluggable modules are declining 8–12% annually as technology matures and volumes increase .

Supplier Options

- **ServerBasket:** Offers a wide range of SFP, SFP+, QSFP+, QSFP28, and QSFP-DD modules compatible with major brands, with free shipping and 90-day warranty .

- **Kocent Optec:** Supplies 10G, 40G, and QSFP-DD modules with customization options for wavelength, firmware, and branding, suitable for industrial and data center deployments .

- **GBICS:** Provides QSFP-DD 400G modules including LR4, LR8, and SR8 variants, tailored for high-speed Ethernet applications .

Estimated Cost Range

- QSFP-DD 400G SR8 / LR4: USD 1,500–2,500 per unit

- QSFP-DD 400G LR8 / high-end PAM4: USD 3,000–4,000 per unit

- **Lead Times:** Typically 12–24 weeks for carrier-grade modules due to supply chain constraints .

Recommendations

- For data center or telecom backbone deployments, prioritize modules with extended temperature tolerance and vendor-certified compatibility.

- Consider bulk purchasing to reduce per-unit cost, as high-volume orders are common in Saudi Arabia's expanding fiber-optic infrastructure.

- Monitor market trends, as prices are gradually decreasing with the adoption of 400G and 800G technologies . QSFP-DD modules are a critical investment for high-speed networks in Saudi Arabia, and understanding the interplay of module type, brand, and environmental specifications is essential for cost-effective procurement.

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