

Saudi Arabian price for active optical devices 400G



Overview

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Key Takeaways

400G QSFP-DD Active Optical Cables (AOCs) in Saudi Arabia are priced between USD 180 and USD 350 per unit at the OEM level. Pricing Overview

In Saudi Arabia, 400G AOCs are primarily used in hyperscale data centers, AI/ML clusters, and high-performance computing (HPC) environments. The OEM-level price range for 400G QSFP-DD AOCs is approximately USD 180–350 per unit, reflecting the cost of high-speed DSP and VCSEL components, as well as fabrication and channel delivery costs (IndexBox report) . For comparison, 800G OSFP AOCs command higher prices, typically USD 400–700 per unit, due to more advanced electro-optical integration and power requirements .

Market Context



The Saudi AOC market is import-dependent, with over 90% of units sourced from China, Taiwan, Malaysia, and Vietnam, as domestic production is negligible . The market is projected to grow at a CAGR of 18–22% from 2026 to 2035, driven by national digital transformation initiatives under Vision 2030 and massive investments in hyperscale data centers . Data centers and cloud infrastructure account for 60–70% of total AOC demand, with AI/ML workloads and HPC representing the fastest-growing segments .

Supply and Lead Times

High-speed 400G AOCs face supply chain constraints, particularly for specialized DSP chips and VCSEL arrays, resulting in lead times of 12–20 weeks for high-volume orders . This can impact project timelines for large-scale deployments in Riyadh, Jeddah, and Dammam.

Deployment Trends

- Short-reach multimode AOCs (3–10m) are widely used for Top-of-Rack to server connectivity.
- Silicon Photonics (SiPh) AOCs are increasingly adopted for lower power consumption (8–12 W per 800G link) and higher efficiency .
- InfiniBand NDR 400G AOCs are gaining traction in HPC and research facilities, including KAUST and national supercomputing initiatives .

Summary

For procurement planning in Saudi Arabia, expect 400G AOCs to cost USD 180–350 per unit, with potential variations depending on vendor, cable length, and technology (VCSEL vs. SiPh). Market growth, supply chain constraints, and high-speed networking adoption are key factors influencing pricing and availability.

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