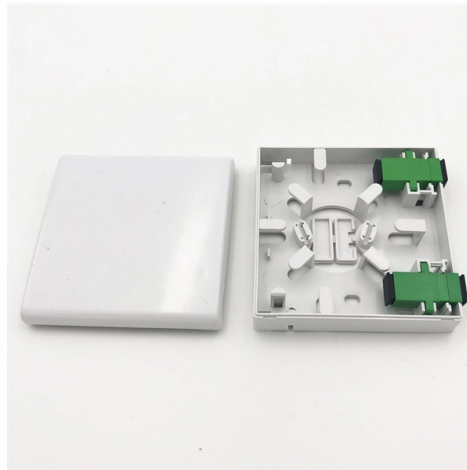


Saudi Arabia inquiry for 800G carrier-grade router



AI Overview

Saudi Arabia has operational 800G network trials, and multiple vendors offer carrier-grade 800G routers suitable for high-capacity deployments. Local Deployment Context: stc Group, the leading telecom operator in Saudi Arabia, successfully completed the MENA region's first long-haul 800G trial in its live optical network, connecting Riyadh to Makkah over 1,000 kilometers. This trial demonstrated that 800G solutions are ready for scale deployment, enabling higher data throughput per wavelength, longer reach without regeneration, and reduced power consumption compared to 100G channels. The trial used advanced 800G optical modules with high baud bandwidth modulators and 16QAM modulation, proving the feasibility of ultra-high-speed networks in Saudi Arabia.

Vendor Options for 800G Routers

Nokia 800GE Routing Platforms: 7750 SR-s series (SR-7s, SR-14s)
Capacity: Up to 216 Tb/s full duplex in a 12-slot chassis
Ports: Supports 36 QSFP-DD ports per line card for 800GE, 400GE, or 100GE optics
Efficiency: 20–40% more energy-efficient than multiple 400GE/100GE links
Features: FP5 silicon for deterministic packet forwarding, backward compatibility with FP4, supports full SR OS feature set

Juniper 800G Solutions Platforms: PTX10004, PTX10008, PTX10016
Packet Transport Routers Capabilities: High-density 800G ports, ZR/ZR+ pluggable coherent optics, inline MACsec, advanced QoS
Use Cases: WAN and data center networks, scale-up and scale-out deployments
Advantages: AI-native telemetry, flexible licensing, and modular design for future scalability

UfiSpace S9620-32E
Type: 32 x 800G open aggregation router
Platform: Qumran 3D silicon
Features: Segment routing, MPLS, advanced QoS, telemetry-ready architecture
Benefits: Compact, power-optimized, supports flexible breakout options, ideal for AI-driven traffic growth and metro aggr...

Article Content

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stc and Huawei Completed the MENA Region's First-Ever Long-Haul

stc Group, the leading operator in the Kingdom of Saudi Arabia, partnered with Huawei to complete the MENA region's first-ever long-haul 800G/channel trial in its live optical network.

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stc Group and Huawei Achieve Milestone in Optical

Riyadh, Saudi Arabia, March, 2024: In a groundbreaking development, stc Group, the leading operator in Saudi Arabia, has partnered

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TP-Link Tri-Band BE19000 WiFi 7 Router (Archer BE800) | 12-Stream 19 Gbps | 2 × 10G + 4 × 2.5G Ports | LED Screen | 8 High-Performance Antennas | VPN, Easy Mesh, 4×4 MU-MIMO, HomeShield,

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800GE routing | Nokia

Customers of Nokia 7750 SR-7s and 14s routers can upgrade to the new FP5 hardware for 800GE support. FP5 hardware delivers 3x more capacity than FP4 in the same resource footprint and thus

800G Solutions

For the most demanding environments, the 800G routing and switching platforms provide flexibility and choice for large scale cloud, AI, leaf and spine, routing transformation and hyperscale IO intensive

stc Group and Huawei Achieve Milestone in Optical Network

This successful trial, spanning over 1,000 kilometers from Riyadh to Makkah, marks a significant advancement in optical network technology, demonstrating the readiness of the 800G

stc and Huawei Completed the MENA Region's First-Ever Long-Haul

This successful live network trial with connection over 1,000 kilometers, from Riyadh to Makkah, of state-of-the-art processing and transporting capacity proves the 800G solution is ready

STC Successfully Demonstrates 800G Live Network Trial for Long

Saudi Arabia's STC Group in collaboration with Huawei has successfully completed the MENA region's inaugural long-haul 800G per channel trial within a live optical network. The

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Stc Completes Long-Haul 800G Live Network Trial

Saudi Arabia's STC Group has partnered with Huawei to complete the MENA region's first-ever long-haul 800G per channel trial in a live optical network. The successful live network trial, with ...

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Juniper PTX Series Routers: Secure, high-performance routing

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S9620-32E 800G Open Aggregation Router

Leveraging the advanced Qumran3D platform, it delivers exceptional forwarding scale, power efficiency, and feature richness to address the rapidly evolving demands of carrier-grade backbone and metro

Accelerating Data Center Interconnect with High-Performance 800G

Find out from Alok Pandey, Senior Principal Product Manager at HPE, how 800GE PTX routers offer the leading scale, performance & security needed. | HPE Saudi Arabia.

Contact Us

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