Quotation for the 800G Aggregator Switch Project in the Netherlands



Overview

KPN Taps Nokia for 800G FabriQ Network Upgrade in NetherlandsNokia has been chosen by Dutch operator KPN to overhaul the digital backbone of the Netherland.

Key Takeaways

Exact pricing for 800G aggregator switches is not publicly available, but project scale, vendor choice, and technical specifications strongly influence costs.

Project Overview

The Netherlands is undergoing a major 800G network upgrade led by KPN, branded as the FabriQ program, which replaces the existing core infrastructure with Nokia's FP5-powered IP routers and PSE-6 optical systems. This upgrade increases core network capacity from 48 Tbps to over 216 Tbps, supports end-user speeds above 10 Gbps, and enables advanced services for enterprise, wholesale, and residential customers. The deployment also incorporates segment routing over IPv6 (SRv6) for automation, flexible traffic management, and cloud-ready services.

Key Technical Considerations Affecting Cost

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Switch Capacity and Throughput: 800G aggregator switches must handle high-bandwidth traffic, often requiring multiple line cards and high-performance network processors like Nokia's FP5. Energy Efficiency: Modern 800G switches are designed to reduce power consumption per Gbps, which can influence both upfront and operational costs. Integration and Automation: SRv6 and advanced orchestration features increase deployment complexity, impacting installation and configuration costs.

Redundancy and Resilience: Core network switches often include failover, encryption, and multi-layer support, which adds to the total project cost. Scale of Deployment: Nationwide projects like KPN's FabriQ involve multiple sites, optical interconnects, and high-density fiber connections, which significantly affect the overall quotation.

Vendor and Procurement Notes

Nokia is a primary vendor for 800G-ready IP and optical systems in the Netherlands, with proven deployments in KPN's FabriQ network. Other potential vendors may include Cisco, Juniper, and Arista, but pricing varies based on support, warranty, and integration services. For a formal quotation, vendors typically require project scope, number of switches, port density, and service-level requirements.

Recommendation

To obtain a precise quotation, it is recommended to: Define the number of 800G aggregator switches and required port configurations. Specify integration requirements with existing network infrastructure. Contact vendors directly (e.g., Nokia, Cisco, Juniper) for customized proposals including hardware, software, and support services.

Consider total cost of ownership, including energy efficiency, maintenance, and scalability for future upgrades. By providing these details, vendors can issue a tailored quotation aligned with the technical and operational needs of a high-capacity 800G network deployment in the Netherlands.

Article Content

KPN Taps Nokia for 800G FabriQ Network Upgrade in Netherlands

Nokia has been chosen by Dutch operator KPN to overhaul the digital backbone of the Netherlands with a new 800G-capable IP and optical network, in a project that will replace KPN''s

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Nokia has been selected by Dutch telecom KPN to help transform the Netherlands'' core digital infrastructure through the deployment of an 800G-capable IP and optical network.

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Nokia powers Dutch digital services with next-generation 800G-ready

Espoo, Finland – Nokia today announced it has been selected by KPN, a Dutch telecommunications company, to help transform the Netherlands'' core digital infrastructure through the deployment of an

Nokia selected to power Dutch digital services with 800G-ready network

Nokia has been selected by Dutch telecommunications company KPN to help transform the Netherlands'' core digital infrastructure through the deployment of an 800G-capable IP and optical

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The global 800G Switch market size is expected to reach $ 23781 million by 2031, rising at a market growth of 41.0% CAGR during the forecast period (2025-2031).

400G/800G/1.6T Switch Worldwide Market Research Report 2025

QYResearch''s 2025 latest report "400G/800G/1.6T Switch - Global Market Share and Ranking, Overall Sales and Demand Forecast 2025-2031" delivers an authoritative analysis of market attributes, size

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Global 800G Switch Market 2024 by Manufacturers, Regions, Type

Secondary Source Data collections from annual reports, presentations,associations, journals, analyst reports, paid database, press releases, blogs, newsletters,and GIR repositories. Discussion of all the

800G Switches Market Size, Share & Growth Report [2024-2034]

The 800G Switches Market size is expected to reach USD 4.5 billion in 2034 growing at a CAGR of 14.5. The 800G Switches Market report classifies market by segmentation, growth drivers,

In-Depth Analysis Report on 800G Switches | FiberMall

Core switch RG-N18000-X already supports evolution to 800G line cards. ZTE: ZXR10 9900X series data center switches support high-density

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