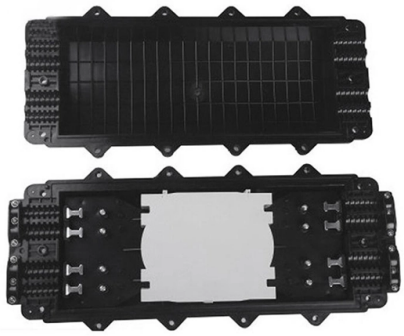
Customization Process for 200G Fiber Ethernet Switches



Article Overview

Customizing 200G fiber Ethernet switches involves selecting compatible transceivers, configuring port speeds, optimizing network topology, and leveraging vendor-specific software APIs for tailored performance.

Hardware Customization

Transceiver Selection: 200G switches typically use QSFP56 or QSFP-DD modules, which support four 50G PAM4 lanes per port. Choosing the right module depends on your network architecture, distance requirements, and fiber type (single-mode or multi-mode) to ensure proper signal integrity and loss budget compliance . Port Configuration: Many 200G switches, such as the VSC7558TSN, support a mix of 1G, 2.5G, 5G, 10G, and 25G ports. Customization includes defining which ports operate at which speeds, enabling link aggregation, and configuring VLANs or QoS policies to match application requirements . Topology Planning: Upgrading to 200G often involves leaf-spine architecture adjustments. Oversubscription ratios, east-west traffic patterns, and spine bandwidth must be calculated to avoid bottlenecks. Proper fiber plant planning ensures that existing cabling supports the higher data rates without signal degradation .

Software and API Customization

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