

Selection of Core Switches for Structured Cabling



Article Overview

Core switches are high-performance, central network devices that aggregate traffic from distribution layers, requiring careful selection based on bandwidth, redundancy, and compatibility with structured cabling.

Role of Core Switches in Structured Cabling

Core switches sit at the Main Distribution Area (MDA) of a structured cabling system, connecting aggregation or distribution switches and linking to external networks . They handle high-speed data forwarding, manage large traffic volumes, and ensure network stability across the data center . Proper integration with structured cabling ensures organized, scalable, and reliable connectivity, supporting both fiber and copper backbones .

Key Considerations for Selecting Core Switches

1. Performance and Bandwidth Core switches must support high throughput to handle aggregated traffic from multiple distribution switches. Look for switches with high port density, multi-gigabit or 10/25/40/100 Gbps interfaces, and low latency to maintain efficient data flow . 2. Layer 3 Capabilities Layer 3 functionality is critical for routing between VLANs and subnets. Core switches should support advanced routing protocols, DDoS protection, and link aggregation to optimize traffic delivery and maintain network reliability . 3. Redundancy and Fault Tolerance To prevent downtime, core switches should include redundant power supplies, cooling systems...

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