What core switch should be used for 100 surveillance cameras

Overview

Recommended: two 48-port managed L2+ switches with 740W+ PoE budget each, 10G fiber uplinks to a core switch or firewall, 802. 1Q tagging for camera/VoIP/data/guest VLANs, and LACP link aggregation between the switches. A network switch is the most failure-sensitive component in most surveillance and access control systems. When a camera, reader, or phone stops working, the root cause is a bad port, an exceeded PoE budget, or a VLAN misconfiguration far more often than a failed endpoint. Getting the switch spec. This guide explains CCTV network installation from start to finish, focusing on PoE configuration, troubleshooting, and choosing the right switches. The following are a few popular standards: 802. The right switch ensures your IP cameras stay powered, your video streams remain uninterrupted, and your network is ready for future expansion.

Article Content

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Recommended: 48-port access switches per building with SFP+ uplinks, core L3 switch with 10G+ SFP+ fiber ports, separate VLANs per building for camera traffic with inter-VLAN routing at the core.

How many surveillance cameras require a core switch?

For systems with fewer than 32 channels, a core switch is generally unnecessary. For systems with 32 or more cameras, the decision to use a core switch should be made based on the ...

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