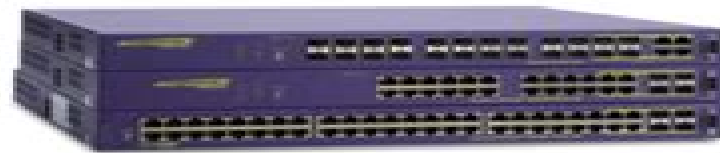


Summit X450a Series



Summit® X450a series—The highly scalable advanced aggregation switch with the revolutionary modular operating system, ExtremeXOS®.

Voice-Class Availability

- Modular ExtremeXOS Operating System (OS)
- Ethernet Automatic Protection Switching (EAPS) resiliency protocol
- SummitStack™—highly available, high-speed stacking support

Advanced Features Offer Versatile Deployment

- High bandwidth, non-blocking architecture for demanding edge applications
- High density gigabit ports with optional 10 gigabit uplinks that provide high-performance aggregation
- Advanced routing protocols such as OSPF, BGP and multicast for an efficient and productive small network core
- Exceptional Quality of Service (QoS) with advanced traffic management capabilities for triple play services in Carrier Ethernet networks

Comprehensive Security

- User authentication, host integrity enforcement and Identity Management
- Universal Port dynamic security profile to provide fine granular security policies in the network
- Threat detection and response instrumentation to react to network intrusion with CLEAR-Flow Security Rules Engine
- Harden the network infrastructure with Denial of Service (DoS) protection and IP security against man-in-the-middle and DoS attacks

Summit X450a switch is an industry-leading converged Gigabit Ethernet aggregation switch with the ExtremeXOS modular operating system and optional dual 10 Gigabit Ethernet ports.

The Summit X450a series is based on Extreme Networks® revolutionary ExtremeXOS OS. ExtremeXOS modular OS is a highly resilient OS that provides continuous uptime, manageability and operational efficiency. Each Summit X450a switch offers the same high-performance, non-blocking hardware technology used on Extreme Networks BlackDiamond® 8800 series, in the Extreme Networks tradition of simplifying network deployments through the use of common hardware and software throughout the network.

The highly flexible and scalable Summit X450a switch is an ideal aggregation switch for traditional small core enterprise networks. The Summit X450a series is a perfect first level aggregation device for DSLAMs at a local central office before traffic is passed on to the Extreme Networks BlackDiamond 20808 or BlackDiamond 20804 core switch at the Point of Presence (POP) where traffic is managed and connected to service networks.

The extremely versatile Summit X450a switch provides high-density gigabit plus optional 10 Gigabit Ethernet ports in a compact 1RU format, supporting a full range of Layer 2 to Layer 4 functionalities on every port to allow high productivity. Optional redundant power supplies are offered with each switch to protect against power anomalies, providing a continuous operational network.

Target Applications

- Core switch for a small network
- Aggregation switch in a traditional three tiered network that requires high availability and ExtremeXOS advanced features
- Customer Edge (CE) or Provider Edge (PE) device in a Carrier Ethernet network
- Interconnect switch providing low latency connections for High Performance Cluster Computing (HPC)



Summit X450a User Manual

Minjie Lin



Summit X450a User Manual:

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Decoding **Summit X450a User Manual**: Revealing the Captivating Potential of Verbal Expression

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